

# MINING journal VOL.308

AND

# MINING magazine VOL.156

# INDEX

1987

JANUARY-JUNE

## CONTENTS

Metals and Minerals	Page 1
Countries	Page 4
Methods and Machines	Page 7
Companies and Other Public Bodies	Page 9

A Article
D Mining Digest
E Editorial
H Highlights
IA Industry in Action

## INDEX CLASSIFICATION

L Letters	N Notes and Comments
M Methods and Machines	O Obituaries
ME Company Meetings	P Panorama
MF Mining Finance	R Book Reviews
MW Mining Week	S Metal Markets

This combined index covers the complete editorial content of both Mining Journal and Mining Magazine. Additional copies may be obtained from the Subscription Department.

## Metals and Minerals

### ALUMINIUM

Gulf aluminium survey	IA J010
More from the Gulf	NW J019
Albras pricing talks continue	IA J027
Goldendale closes	IA J043
Aluminium firm in face of	
Surinam difficulties	S J075
Bleak prospects	NW J087
Japanese withdraw from	
Alunorte	NW J089
Further surge for aluminium	S J091
Goldendale future uncertain	IA J096
High grade Al for LME?	S J108
Suralco closure indefinite	NW J126
Bull market for aluminium	S J127
Closure at Goldendale	IA J133
Japanese aid for smelters	NW J144
Aluminium steady	S J147
Goldendale disposal	IA J156
Surge for aluminium	S J175
Reynolds re-opens potlines	IA J185
Alcan closure	IA J185
Aluminium into reverse	S J189
Japanese reduction process	NW J213
Gulf States face difficult	
year	NW J213
Aluminium sell-off	S J215
Albras agreement	IA J218
Aluminium bounces back	S J234
Dollar contract for LME	
aluminium	S J234
Kentucky smelter rate relief	IA J238
Surinam alumina drop	IA J239
Aluminium under the	
influence	S J258
Aluminium review urges new	
capacity	S J259
Aluminium reopening	IA J275
Greek project go-ahead	NW J329
Comalco expenditure	IA J334
Alcan rethink Laterriere	IA J352
China also assesses idle Al	
plants	IA J355
Aluminium moves on force	
majeure	S J363
Aughinish resumption	IA J374
Japanese demand buys	
aluminium	S J378
Positive Laterriere decision	IA J389
Reverse for aluminium	S J394
Alcoa involvement in Chinese	
aluminium	IA J411
Anshan rescue hiccups	IA J412

Alcan holds Laterriere costs	IA J428
Aluminium smelter move in	
Gulf	NW J445
Indian alumina for Poland	S J458
Aluminium boost	S J459
New site for Greek alumina	
plant	IA J469
Sebrer potline resumption	IA J470
More pots for Alba	IA J487
IPAI May figures	S J494
Norwegian smelters	A M489

### ASBESTOS

Asbestos: a flawed analysis?	N J377
Canada launches asbestos	
R & D	IA J450
Government loan guarantee	
for JN Asbestos	NW J483

### BAUXITE

Surinam bauxite matters	IA J026
Pechiney's bauxite closure	
plans	IA J078
India: Balco balked on	
bauxite	NW J144
Guinea bauxite milestone	IA J250
Surinam's bauxite blow	NW J310
Not such an ill wind	NW J310
Hungarian bauxite prospects	IA J372
Jamaica raises bauxite	
output	S J379
Jamaican bauxite recovers	IA J470

### BERYLLIUM

Beryllium agreement	IA J183
Cominco firms Beryllium JV	IA J273

### BISMUTH

Minor metals	S J341
Peruvian bismuth exports	
rise in 1987	S J436

### CADMIUM

Cadmium pollution reaction	IA J315
----------------------------	---------

Minor metals muster more	
support	S J323
Minor metals	S J341
Cadmium sets the pace for	
minor metals	S J387

### CHROME

Cuban chrome	IA J185
--------------	---------

### COAL

Productivity boost at	
British Coal puts more	
jobs at risk	NW J005
Swazi-Kenya coal deal	IA J011
Fire threatens future of	
Scottish pit	NW J019
Ulan expands coal output	IA J026
Sanctions affect A.S.A. coal	IA J027
Record coal output for	
G.D.R.	IA J043
Improvements in Hungary	IA J043
Serious fire at Seafield	IA J044
Belgium coal restructuring	NW J044
September start for Antaiabao	
coal project	IA J052
Union presses for trebled	
coal output	NW J053
China spends World Bank	
money	IA J059
Coal miscellany	IA J059
Rubrikole investment	IA J059
NSW coal record	IA J079
Ffow Las opencast coal mine,	
South Wales	P M008
Butterwell mine, U.K., has	
much to celebrate	A M028
Carrejon North satisfactory	IA J098
Weekatharra awaits coal	
decision	IA J112
R.S.A. deregulates coal	
price	IA J113
Coal enterprise for BLB	IA J133
Australian coal warning to	
Japan	IA J134
Quietette coal price under	
pressure	NW J145
Oberdorff's giants	IA J155
China's mining army	IA J155
Demonstration coal	
gasification plant in	P M108
FRG	

More Indonesian coal	IA J181
Flooding at Tatabanya	IA J187
British Coal seeks	
flexibility	N J193
U.K. aid offer for coal	
project	NW J197
Alaskan coal search	IA J201
ILC agreement	IA J203
Price fall hits producers	NW J214
China's Antaiabao coal	
project on-stream this	
year	P M180
Utilisation of low quality	
coal extends South	
Africa's reserves	P M181
Carbovalia selects partners	IA J249
Hughes Creek coal for Algonia	IA J249
Huge new Soviet colliery	IA J250
Singrauli expansion	IA J250
Polish coal exports slip	S J258
Largest ever Australian coal	
contract	NW J269
Soviet coal slurry project	IA J275
New Hungarian lignite mine	IA J275
Arco and Agip in Venezuelan	
coal venture	NW J289
La Loma plans slimmer	IA J314
Polish coal costs	IA J314
British Coal's Southside	
preparation plant	P M361
New Denmark - the colliery	
of the eighties	A M276
Versejoul washery	A M284
Control and automation of	
large scale coal	
preparation plants	A M293
Turnkey coal preparation	
plant manufacturers	A M300
Crumlin costs	IA J353
Sino/U.S. coal project	IA J353
More coal in Kazakhstan	IA J389
Chiqui's power set-up	IA J391
Coal import controls for	
R.O.K.	IA J391
Coal washing investment for	
Isacor	IA J411
MITI plans for revamped coal	
industry	IA J411
Gujarat lignite find	IA J428
U.S.S.R. radio technology	IA J430
N.S.W. coal closures	IA J430
China coal projections	IA J431
Optimism for steam coal	S J437
New mine at Tatabanya	IA J449
Coal imports for CBR	NW J461

Queensland coal target  
Newcastle's reward yet to  
come  
Capcoal plans expansion  
Canadian coal price cut  
Spitsbergen - mining coal  
within the Arctic

**COBALT**

Cobalt crust for Japan  
Minor metals  
Outokumpu postpones Keretti  
closure decision  
Outokumpu's cobalt decision  
Cobalt responds

## COPPER

United States: joint ownership works at White Pine  
Zambian refinery/smelter closures  
Kennecott re-opens Bingham concentrates  
Brink start of copper  
Bor achieves target  
Cyrus factors hold away  
Hindustan mill, Iranian copper under pressure  
Hindustan buys copper  
New proposal for Saindak Schell Ranch results  
Saindak remains inactive  
Asarco modifies copper plant Developments at Magma  
Copper, Arizona  
Charcos mine  
Turkish investment  
Brief rally for copper  
Progress at Bisbee  
Advance for copper  
Copper stocks slide  
Selling plans for copper  
Dexing expansion  
Tightness persists in copper  
Mamot's financial restructuring  
Five more years for Mt. Lowell  
Copper producers warn LME  
Asarco Haden closure  
Copper, Arizona  
Seminor seeking funds  
Lesse Philippine copper  
Copper, Arizona  
Further moves on Saindak Project, Pakistan  
Sar Cheshmeh statistics  
Volatility in copper  
Salobo output to rise  
Cape fire damage  
Geddes plant add on Windy Craggy  
Shakani closes  
Copper to remain in oversupply  
Limited demand growth  
China copper trade with China  
Asarco force majeure  
Chinese copper study  
Underground programme at Anfil  
Cape's fire damage  
Solveix at Chibougamau  
Copper consumption on the increase  
Copper consignment dates  
Successful year for Sohar copper  
Reopening of Kilome mine, Uganda  
Uganda: a possibility  
La Caridad  
Panar to import concentrates  
Copper on the move  
Chambishi closure  
A perspective on copper  
Copper on price  
Cipee sees a deficit  
Japan to export more copper  
Improvement at San Juan, Arizona

## DIAMONDS

Hong Kong joins diamond federation  
Syrian diamonds mooted  
Aerod output up  
De Beers changing gear?  
Diamond hopes for Acorn  
Ghana's diamond output  
Tinseltown  
Good year for diamond  
bourse  
Sustained bull market?  
Bow River feasibility  
awaited  
C.A.R. diamond production  
Australian diamond  
exploration  
India eyes Australian  
diamonds  
Diamond prospecting for  
Cluff  
Belgravia in Liberia  
China's diamond venture  
Acorn's latest bulk sample  
India's diamond exports  
Finsch unrest

Aredor makes the grade MW J446

## GALLIUM

Gallium metal for Hungary	IA	J010
Alcan enters gallium field	IA	J095
Problems at Apex	IA	J134
U.S. seeks more	MW	J212
Rare metal values for Equinox	IA	J217

## GEMSTONES

Chinese gem find	IA	J041
Zambia's invisible exports	MW	J146
Zambia's Emerald plans	IA	J183
Sri Lanka topaz	IA	J201
Zambia's emerald warning	IA	J275

## GERMANIUM

GSA seeks germanium IA J027

**GOLD AUSTRALIA**

J.V. at Peak Hill	IA	1015
Positive feasibility for Commission	IA	1025
Mr. Bradley plan for Wailkall	IA	1025
Horizons at Dargues Reef	IA	1025
Gravel option for BHP	IA	1040
Yarrri project groups	IA	1058
Reynolds/Forearth JV	IA	1072
Drilling continues on Brouls King	IA	1077
Numerical success	IA	1077
Lateritic gold at Parker's Saucer	IA	1077
Cambrina's progress	IA	1111
Feasibility study at Sheahan Saucer	IA	1111
Heap leaching at Mt. Leyshon	IA	1124
GCM's Lady Bountiful search	IA	1131
Randall's leaching trials	IA	1131
Thermal emission for Northford?	IA	1131
Plant expansion at Mt. Northford	IA	1131
Australia's largest producer	IA	1145
Pine Creek expansion	IA	1145
Great Australian escave	IA	1145
Audimco at Porphyry	IA	1181
Gabaniina plant deal	IA	1181
Sunderow tenders	IA	1181
First trial for Gannan	IA	1211
Laterite gold for Paragon	IA	1211
First gold from Cracow	IA	1211
Cambrina Resource at Dumblah	IA	1211
Grass roots work for Southwest	IA	1231
Golden Shamrock at Coopers Creek	IA	1231
Big Bell feasibility for Commission	IA	1231
Fouanini born again	IA	1271
Pelting production plans	IA	1271
Bililton's Tin God farm- out	IA	1271
Goddard plans for CAC	IA	1291
Barnesfield final	IA	1291
Cost investigation results	IA	1311
Balance sheet update	IA	1311
Starra mine go-ahead	IA	1331
Hardy Lights gold increase	IA	1331
Beaumont's second C-I-P plant in Victoria	IA	1331
June start-up for Julia	IA	1331
Success for Samson	IA	1371
Gold reserve potential	IA	1371
Caledonian reserve potential	IA	1371
Warrille epithermal gold	IA	1371
Westgate's Australian gold cushion	IA	1371
Dobroyde surprise for Little Ridge	IA	1381
Molins' gold expectations	IA	1381
Sheahan-Grants permission	IA	1381
First gold at Jubilee	IA	1401
Westerly Mining rearranges its gold assets	IA	1401
Feasibility study for Darlot mine	IA	1401
Aquarium's Golden Dyke find	IA	1401
Australian Nugget success	IA	1421
Soil sampling at Broad Arrow	IA	1421
Gold ore from Broad Arrow	IA	1441
Croesus drill Nannan's area	IA	1441
Gabaniina commissioning in light	IA	1441
Promise at Newfield	IA	1461
Australian epithermal research	IA	1461
Trials mining at Kilkivan	IA	1461
Clackline activity	IA	1461
Wilgena drilling for new fields	IA	1461
Mt. Leyshon expansion	IA	1461

Simmins gold tailings project	IA	J010
Skyline looks bright in B.C.	NW	J021
Southwest feasibility study	IA	J022
Noranda consolidates Sillido structure	IA	J025
Red Lake development continues	IA	J025
Canada's largest gold producer	IA	J026
Winnipeg's Cadillac's Wax claims	IA	J041
Julia interest restructured	IA	J041
Mishishibiu underground work	IA	J050
Goldfield activity	IA	J050
Res at Adams Lake	IA	J058
Spotlight on Getty Resources	IA	J058
Seabee's new plant	IA	J058
Mobile biotank for Giant Uay	IA	J059
Magno reserves improved	IA	J077
Canada's largest gold producer	IA	J077
Nickel Plant on schedule	IA	J078
Beacon plant almost ready	IA	J078
Canada's largest gold producer	IA	J099
Gold mine at Little	IA	J099
Stull	IA	J099
Campbell's share of Detour	IA	J099
Gerle Gold seeks funding	IA	J111
Little River plans	IA	J111
Goldfield activity	IA	J111
Manitou Lake farm-in for	IA	J111
Canadian Leach-out	IA	J111
Total production gold output	IA	J111
Inco continues Cowan	IA	J111
Billings	IA	J113
Inco/Golden Hill outline	IA	J113
Seabee's new plant	IA	J113
Delaware's Snip progress	IA	J155
Selco in Kitimat	IA	J155
Seabee's new plant	IA	J155
Funding for Quenakee	IA	J158
Nickel Plant ahead	IA	J158
Yellowknife tailings	IA	J158
Seabee's new plant	IA	J158
Golden Patches expenditure	IA	J201
More high grades at Erickson	IA	J201
Canada's largest gold producer	IA	J201
tailings project	IA	J201
progresses	NW	J231
Burgoyne audit results	IA	J241
McFlin update	IA	J241
Funding for Neptune's	IA	J241
Canada claims	IA	J241
Frederick reserves at	IA	J241
Parom Lake	IA	J241
Jascan buys gold properties	IA	J241
Katikan go-go work	IA	J241
Galveston investment	IA	J241
More gold for Canamax	IA	J241
Hope Brook mining	IA	J241
Drilling on Delaney	IA	J241
Clavos reserves increased	IA	J241
Decline at Eastmain	IA	J241
Drilling at Delaney	IA	J241
Tundra expands Lamake	IA	J241
holding	IA	J241
Bressey's results warrant	IA	J241
drilling	IA	J241
Getty/Ayuda at Tundra	IA	J311
Mishishibiu project advances	IA	J311
increased production	IA	J311
Geill Lake	IA	J311
Encouragement at Mishishibiu	IA	J311
Progress at Elsie Lake	IA	J311
Wixman plans for Chesbar	IA	J311
Joe Mann on line	IA	J311
Wixman's new plant	IA	J311
Gunnar acquisition	IA	J311
Promise at Dore Lake	IA	J311
Battlement's new plant	IA	J311
Little River drilling	IA	J311
Green light for Kremzar	IA	J311
project	IA	J311
LAC spending plans	IA	J311
Maple Leaf wits	IA	J311
Moss Township gold prospect	IA	J311
increased production	IA	J311
prospects	IA	J311
Fraserford venture	IA	J411
Platinum Plant on line	IA	J411
Housing values at Mishishibiu	IA	J411
New lease for Theresa?	IA	J411
Tundra results warrant	IA	J411
Tartan Lake joins producers	IA	J411
New twist at Hemlo	NW	J411
Battlement's new plant	IA	J411
Addison claims	IA	J411
Magno project firmed	IA	J411
Canada's largest gold producer	IA	J411
Big Winkos/Seabee merger?	IA	J411
Gold buoys Bilbak mineral	NW	J411
revenues	NW	J411
All that at McFlin	IA	J411
Golden Bear feasibility	IA	J411
Coshiba plans Tangier	IA	J411
second phase	IA	J411
Aberdeen financing	IA	J411
Ontario expands Ontario	IA	J411
holdings	IA	J411

## GOLD SOUTH AFRICA

Joel shaft grades	IA	J011
Kloof fire recovery	IA	J011
General Electric's mining costs	IA	J011
and falling reserves	NW	J011
R.S.A.'s 1986 gold output	IA	J011
Drilling's first pour	IA	J011
Drilling's first pour	IA	J011
Drilling's first pour	IA	J011
Ergo slimes reclamation	IA	J011
First blast at Reddick No. 1	IA	J011

More South African gold	IA	J374
Drilling to "Potch Gap"	IA	J388
Eersteling work for Sevmin	IA	J409
Golden keys	E	M359

**GOLD U.S.A.**

Good progress for Canyon Resources	NW	1005
Crone Hill potential increased	1A	1009
First gold from Carson Hill	1A	1010
Dean mine for St. George	1A	1025
Gold revival	1A	1026
Goldenbell production decision for Pine Tree	NW	1036
London venture for Cobb/Chrone	1A	1043
Two spots on Zaca claims? Sphenon-Horse mill on schedule	1A	1051
Record gold coin sales	1A	1059
Sleeping first strike	1A	1060
One pretreatment at McLaughlin mine	P	MO07
Round Mountain leaching completion	1A	1095
Van Deeman work for Arizona	1A	1111
New zone for Geodome	1A	1131
Nevada gold fee opposed	1A	1134
Antipraxis deal	1A	1154
Pacific at Horton Bend	1A	1154
Queenstake's hopes for Argus	1A	1154
Glenn examines Sullivan Ridge feasibility	1A	1181
Nevada's Kingston success	1A	1218
Sunbeam project firmed	1A	1237
Laurel Pioneer's Puffy Lake	1A	1237
Jamestown's assets solidify	1A	1238
Landmark Landmark resumption	1A	1238
More U.S. gold	1A	1248
Expansion at Round Mountain	NW	1245
Reclamation start-up	1A	1245
Echo Bay discovery	1A	1273
Further work at Hilopot	1A	1275
Gold state at Hilopot	1A	1277
Queenstake drills Gold King	1A	1292
Leaching soon at Cargo	1A	1293
Laurel-Hachco	1A	1293
Autoclave for Mercur Bioreaching on Stibnite deposit	NW	1311
More gold for Newmont	1A	1332
Born of Plenty at Ivanhoe	1A	1332
Cannon mine reserves expanded	1A	1335
Good values at Goldstrike	1A	1372
Drilling planned on Crone	1A	1372
Quartzite	1A	1373
La Teka heap leaching	1A	1373
Copper King activity	1A	1388
Goldenbell production	1A	1388
Test production at Buffalo Gulch	1A	1395
Cliff Resources' progress	1A	1405
Fluor to sell gold assets? Queenstake locates ore grade	NW	1448
Donc	1A	1448
Noranda joins Bilplot partners	1A	1468
Go-to-gold for Pandora	1A	1469
Expansion at Morning Star	1A	1470
Green light for Ridgeway	1A	1481
Frisco project speeded up	NW	1481
Goldstrike	1A	1481

**GOLD OTHER**

Palorki tonnage increased	IA	J001
Lagoa reserves upgraded	IA	J001
Gold imports for Japan	IA	J001
Exportability for gold	IA	J001
Chinese gold output	IA	J021
Mine production rises again	NW	J031
More gains for gold	S	J031
Aristic funding for Gold Ridge	IA	J041
UCMC acquires N.S. claims	NW	J051
The search for gold	NW	J051
Gold uneasy	S	J051
Precious metals steady	S	J071
Expansion of Gabarit gold mine, Sudan	P	M001
Enhance lead leaching rates with air injection into the heap	A	M041
Petrotrin's gold plans	IA	J091
Denison in Ghana gold project	IA	J091
Guyana's golden policy	IA	J091
Perger's a daunting proposition	NW	J101
Rayrock joins Costa Rican project	IA	J111
Record prepay gold imports Gold benefits from Brazil mining	S	J111
Nigerian gold	P	M101
High grade in Bolivia	P	M101
Novo Abrão: Brazil's future	A	M151
Hard rock gold mine	A	M151
Dominica's Indonesian gold search	IA	J161
Mexican permit for Imperial	IA	J161
Placer awaits Misima approval	IA	J201
Norco Velbo option on Crixnas	IA	J201
Harro gold for Sudan	IA	J201
U.S. resistance to gold	NW	J211
Three views on gold	NW	J211
Micronesia beckons	NW	J211

**Loan for Jason's Kanongan**  
venture IA J237  
Unan mine expansion P M183  
Omai update IA J248  
Deeper work at Oro Norte IA J251  
Brazil in Zaire gold project S J252  
Fresh gains for gold S J283  
New market for gold warrants S J283  
Costa Rica results for Rayrock IA J292  
Gold gains momentum S J302  
Philippines Treasury for GRAIL IA J313  
Pan American in Bolivia MW J330  
Ghana gold interest grows IA J332  
Hidden Valley for CRA IA J334  
Costa Rican snipnets S J340  
Correction for gold S J340  
Spectacular gold values at Lihir MW J349  
More gold in Chile MW J351  
New Zealand's Waitangi prospect IA J352  
Ashanti exceeds target IA J353  
Gold coin sales boom S J363  
Westpac loan for Kalimantan gold project MW J370  
Japan to sell surplus gold IE J374  
India ups gold output IA J391  
Gold action in Mali IA J391  
Gold market's unusual features in 1986 N J394  
What's in a price? N J395  
History revisited in Saudi IA J409  
Gold rise in Philippines IA J411  
Gold beneficiation A M393  
Gold in Costa Rica A M402  
Small-scale gold processing plants M M419  
San Cristobal find IA J428  
Comex ends daily limits on futures S J436  
Another U.S. bullion coin Jason/Target examine Jambali alluvials IA J448  
Heavyweight gold contest MW J465  
Fijian sampling IA J468  
Bogoso gold reserves IA J468  
Benguet orders gold plant IA J470  
Golden Star advances IA J484  
Guyanese project IA J484  
Utah in Mali agreement IA J484  
Future uncertain for El Hueno IA J485  
Gold takes a knock S J493  
Ashanti production H M457

**GRAPHITE**  
Sri Lankan graphite earnings rise IA J277  
Graphite draws more interest MW J406

**GYPSUM**  
Dominican gypsum IA J314

**ILMENITE**  
QIT expansion IA J250

**INDIUM**  
Indium shortage S J127  
Indium price hike S J175  
Indium rolls on S J199  
Minor metal markets feature indium S J303  
Indium price hike S J363  
Indium on the rampage S J458  
Indium price hike S J475  
Indium gains momentum S J494

**IRON & STEEL**  
Goldworthy investment IA J010  
Uncertain steel market MW J037  
Yandicoogina activity IA J041  
Bucket wheel operation in New Zealand A M046  
Tisco expands steel works Counting the cost at Robe River MW J106  
Latin American output up MW J124  
Japanese industry crisis BHP agrees price with Japanese MW J125  
More iron ore to China? MW J145  
Hafslund-Nimba talks MW J197  
Demand patterns to change IA J218  
Yugoslav steel expansion IA J239  
Iron ore to Hungary IA J239  
Mauritania sells less iron ore IA J295  
CRA sole owner of Yandicoogina MW J349  
West African iron producers struggle MW J350  
Steel output slows in Latin America S J363  
New R.O.K. steel plant IA J390  
More steel from South Korea MW J406  
Funding talks for Malaysia iron study IA J412  
BWE system at Omakaka-Jezero A M387  
The forecast for steel S J458  
Indonesia ups sponge iron output IA J470  
Less steel from Japan S J475  
Iron and talc in R.O.K. IA J484  
Robe River reaps reward IA J485  
Kiruna A M462

## LEAD

Lead lurches on stocks rise S J006  
Conroy sustains drill results IA J009  
Go-ahead for Woodlawn extension IA J010  
Lead squeezed S J022  
Brazilian lead operations on offer IA J027  
Lead unwinds S J039  
Doe Run flexibility IA J043  
Lead drifts S J055  
F.R.G. lead divestment for Basf Soliden IA J059  
ILZSG figures IA J060  
Lead dips S J108  
McArthur River resurrected? IA J112  
BRAS routine closure IA J113  
Tightness persists in copper and lead S J199  
Rosario seeks buyer for El Mochito IA J218  
Peruvian lead smelter target IA J238  
Brazil consumes more lead S J259  
LME: lead calls the shots S J340  
Lead and zinc output to rise S J341  
BRAS production figures IA J353  
Strike threat buoys lead and zinc S J362  
Basf Soliden on the march S J378  
Lead squeeze continues S J378  
Lead gains ground S J396  
U.K. lead/zinc consumption rises S J396  
Lead/zinc first quarter Britannia Metals resumes lead output S J459  
First ore from Cadjetub Linares smelter closure IA J470  
Lost shipments buoy lead S J493

## LITHIUM

Lithium: Greenbushes' Spodumene project bears fruit MW J019  
Bolivia lithium move IA J429

## MAGNESITE

Magnesite reserves for Cortes IA J133

## MANGANESE

Soviet manganese IA J187  
Manganese: Icomi output S J259  
Manganese port for Gabon IA J411  
Norwegian smelters A M489

## MERCURY

Placer runs Hg price IA J078  
Mercury producers cut exports S J127  
Mercury producers succeed S J282  
Mercury on the move S J376  
Mercury producers reconsider pricing policies S J493  
Mercury wavers S J493

## MICA

Lacana's Canadian acquisition MW J004  
Indian mica to U.S.S.R. IA J295

## MOLYBDENUM

Amex cuts output MW J168  
Moly price cut S J420  
Codelco lowers moly S J436

## NICKEL

Peesimian for nickel S J006  
Nickel slides S J022  
Inco expresses confidence S J075  
Argentina's Las Aguilas tender IA J094  
SLM trim nickel output IA J096  
Nickel perks up S J127  
Rise in nickel stocks IA J134  
BCL nickel IA J203  
Nickel struggles S J215  
Outokumpu seeks more nickel IA J217  
Harrisville summer closure IA J218  
Soviet interest in Monoc? MW J232  
Less nickel from New Caledonia IA J238  
Nepesa closure IA J251  
Nickel lacks lustre S J258  
Fine balance for nickel N J280  
Nickel on the rampage S J362  
Creah Mill start-up MW J369  
Nepesa closure imminent IA J374  
Nickel bubble bursts S J396  
Better prospects for nickel? S J421  
Larco auction mooted IA J429  
Inco raises European nickel price S J436  
Furnace breakdown in Sulawesi IA J449  
New member for nickel institute S J474  
Norwegian smelters A M491

## NITRATE

Dumping duty on nitrate MW J197

## OIL

Unocal's innovative project on stream MW J073  
Oil sands conundrum MW J126  
Modular crude oil processing plant P M264

## PERLITE

Perlite evaluation in Northern Ireland P M363

## PHOSPHATE

Phosphate reserves in Iraq IA J025  
Phosphates feasibility for Jordan IA J077  
Peruvian phosphate project? IA J078  
Mobil's phosphate purchase IA J187  
Togo plans new production MW J198  
End of an era in the Pacific MW J214  
Estonia rethinks phosphoric mining IA J333  
Tunisia approval for phosphate mine IA J333  
Jetty for Moroccan phosphates IA J389  
Phosphate in Jordan MW J426  
Jordan fertilizer IA J485

## PLATINUM

Westplat's refinery opened IA J010  
Platinum in perspective N J049  
Munni-Munni results IA J096  
Callina's Wilson River PGMS persistent IA J111  
Platinum in Madagascar? IA J133  
Strong consumption growth forecast MW J167  
Platinum at Rooye IA J201  
More S.A. platinum IA J202  
Stillwater produces IA J202  
Marathon breakthrough Platinum search near Princeton IA J273  
Degussa joins International Platinum IA J313  
New Zealand platinum IA J332  
Record year for platinum MW J385  
PGM option for Terrex IA J409  
Another South African platinum mine P M362  
1987 expenditure for Technigun/Quinox IA J428  
Silverado/GMDC Pt-Au venture IA J468  
Fleck's Marathon hopes IA J468  
Platinum study on Kennedy's Vale IA J468  
Tulameen values for UK IA J494  
Platinum

## POTASH

CDC sells fertilizer unit IA J044  
Water inflow at PCA IA J078  
Jordan potash IA J155  
Offers for PPG potash mine? IA J411

## RARE EARTHS

Rare Earths processing for Rhone-Poulenc IA J059  
Dow's rare earths bid IA J133  
Canadians seek rare earths in Greenland MW J386

## RARE METALS

Rare metals plans for Thailand IA J237

## ROCKSALT

Domtar's salt wound IA J043  
More than a pinch of salt IA J487

## RUTILE

AMC's rutile gamble IA J133

## SCANDIUM

Scandium in Norway MW J311

## SILICON

W.A. silicon project IA J133

## SILVER

U.S. consumption increases Mexico's Tayoltita operations MW J021  
Tailings plans for Lencourt Mines IA J043  
The availability of silver IA J077  
Burgin decision pending IA J131

High grade silver at Cobalt IA J217  
Minera Real de Angeles A J250  
Recovery problems at Rosario IA J258  
Silver leaching in Bolivia IA J275  
Silver back in fashion? S J282  
Silver sets the pace S J322  
U.S. silver stocks rise S J322  
Peru suspends sales S J322  
Silver soars on Peru move MW J339  
Silver settles S J363  
Silver decision at Cobalt IA J373  
Black Pine resumption IA J374  
Peru's stance on silver S J379  
Dollar contract proposal for LME silver S J420  
Lucky Friday re-opens MW J427  
Minnova interest in Adams IA J448  
Go-ahead for Burro Creek IA J469  
Silver's dual role S J474  
Silver trade for CME S J475  
Green light for Green's Creek MW J481

## SULPHUR

Partner sought for Bolivian sulphur IA J202  
Sulphur for China IA J333

## SULPHURIC ACID

Latin American output to soar MW J232

## TALC

Talc deposit at Thetford IA J248  
Encouraging results in the development of Shetland talc, U.K. P M460

## TANTALUM

TTIC clears tantalum investment IA J095  
Better prospects for tantalum S J459

## TIN

Wheel Concord to flood IA J011  
Tin: a word of caution N J017  
Banks issue writs against ITC MW J021  
Tin output falls IA J027  
Cost cutting at Cornish tin mines MW J037  
Tin picks up S J055  
Tin already S J075  
ATPC agreement IA J079  
Tin brokers serve writ on ITC S J091  
Mitsubishi closes Akenobe IA J113  
ATPC tin quotes S J127  
U.S. tin disposal steady IA J155  
Tin meeting postponed IA J155  
KLTW opens up MW J195  
ATPC accord on quotas Malaysian tin healthier but not at Bungee Leasing IA J202  
AMT appeals tin decision S J234  
RTX to smelter Peruvian tin IA J238  
Thai tin target S J259  
Paratanna boosts Sn output S J259  
Colquiri investment for Combol IA J275  
Cautionary tales for tin S J283  
Commodity trade - or aid? N J301  
Tin pact extension S J303  
Paris daily quote S J303  
Spanish tin closures IA J314  
Indonesia's tin reserves IA J314  
Visto streamlining IA J333  
Combol mine on standby IA J334  
Turbulent times for Malaysia S J341  
More litigation for ITC S J341  
More ITC litigation S J379  
October start for ELCE tin futures S J420  
Brazil tin output higher S J436  
Tin brokers in court MW J447  
Setback for ITC creditors MW J482  
Tin output dips in S.E. Asia S J494  
Tin dredging at Pitings, Brazil P M445

## TITANIUM

Titanium plant for CVED IA J078  
Titanium competition IA J258  
Minor metals S J258  
Beach sand bonanza in Madagascar MW J309  
Titanium sponge cuts in Japan S J421

## TUNGSTEN

Amex suspends APT plant IA J079  
Tungsten A M219  
Pascu Bueno stays closed IA J250  
U.S. tungsten? IA J448  
China moves on tungsten S J494

## URANIUM

ERA U3O8 sales success IA J027

Uranium policies	IA	J059
Japanese U3O8 enrichment plans	IA	J112
Increased production in 1986	NW	J198
U.S./R.S.A. uranium facts	IA	J203
U.S. to import R.S.A. uranium?	IA	J203
Green Mountain expenditure	IA	J274
Underground uranium mine in Wyoming	P	M447

## VANADIUM

Finland/Brazil vanadium deal	IA	J187
------------------------------	----	------

## ZINC

Zinc drifts lower	S	J022
Zinc slumps	S	J039
Pine Point closure	IA	J059
Zinc price cut	S	J075
Zinc under pressure	S	J091
Niandanta Zinc record	IA	J096
U.K. interest in zinc project	NW	J107
Zinc steadies	S	J108
Zinc stocks rise	S	J147
BHP agrees Cadjetub plan with Billiton	IA	J155

More on Cadjetub	NW	J195
Delcy for Morro Agudo mine	IA	J201
Blue Moon interactions	IA	J217
Zinc smelting cuts mooted	IA	J228
Constructive signs for zinc	S	J258
Brazil consumes more lead and zinc	S	J259
Irish joint venture	IA	J273
Go-ahead for Red Dog Zn-Pb concentrator, Alaska	P	M264
Lead and zinc output to rise	S	J341
Strike threat buoyed lead and zinc	S	J362
European zinc price hike	S	J378

Dutch zinc problems	S	J396
U.K. lead/zinc consumption rises	S	J396
Pha Duing expansion	IA	J411
World's largest zinc roasting facility in Belgium	P	M362
Zinc asset jumps	S	J458
European zinc strategy	NW	J466
Norwegian smelters	A	M491

## ZIRCONIUM

Brazilian zirconium/uranium	IA	J390
-----------------------------	----	------

## Countries

### AFGHANISTAN

Czech equipment for Kabul	IA	J155
---------------------------	----	------

### ALGERIA

Goodwin crushers to Algeria	IA	J113
-----------------------------	----	------

### ANGOLA

Benguela railroad reopening?	IA	J277
Benguela line to reopen?	NW	J309
Benguela puzzle	N	J339

### ARGENTINA

Argentina's Las Aguilas tender	IA	J094
Temporary closure of Argentinian U plant	N	M113
Argentinian phosphate	N	M189
Argentina seeks mining loan	IA	J251
First steps at Santa Elena	IA	J468

### AUSTRALIA

Mt. Leyshon build up Go-ahead for Woodlawn extension	IA	J010
Goldsworthy investment A year of adjustment for Australian companies	MF	J012
J.V. at Peak Hill	IA	J025
Positive feasibility for Dominion	IA	J025
Mt. Bradley plan for Maitland	IA	J025
Uran expands coal output	IA	J026
Horizon at Darguen Reef	IA	J041
Yandicogina activity	IA	J041
Gympie option for BHP	IA	J058
Yarri project grows	IA	J058
Australian/Turkish power talks	IA	J060
Australian success for Paragon at Tomera	NW	J072
Reynolds/Forsyth JV	NW	J072
Drilling continues on Broula King	IA	J077
Great Central Mines at Ora Banda	IA	J077
Zirconia first for ICI	IA	J078
Robe River strike ends	IA	J079
NSW coal record	IA	J079
Numismatic success	IA	J079
Marvel Loch expansion	N	M012
Weipa's clay project	N	M012
Plant expansion at Mt. Percy	N	M012
Sales contract for Roxby Downs U	H	M012
New underground colliery	H	M012
ARI at Alligator Creek	IA	J094
Lateritic gold at Parker's Range	IA	J094
Australian searches for PGMS	IA	J094
Counting the cost at Robe River	NW	J106
Munni Munni results	IA	J111
Cambrina's progress	IA	J111
Feasibility study at Sheahan	IA	J111
Grants	IA	J111
McArthur River resurrected?	IA	J113
BNAS routine closure	IA	J113
Broken Hill changes urged	IA	J113
Heap leaching at Mt. Leyshon	NW	J124
TCM's Lady Bountiful search	IA	J131
Devel farms into Cloncurry leases	IA	J131
Randall's changes hands	IA	J131
Three Mile extension for Northland?	IA	J131
W.A. silicon project	IA	J132
Callina's Wilson River PGMS	IA	J133
New synthetic rutile plant in W.A.	IA	J134
Australian coal warning to Japan	IA	J134

Australia's liquefied coal techniques	IA	J134
Broken Hill agreement	IA	J134
Australia's largest producer 200-ton-plus off-highway trucks	NW	J145
BHP agrees Cadjetub plan with Billiton	N	J150
Creek expansion	IA	J155
Goldsworthy expansion	H	M113
Underground development at Woodlawn	H	M113
Gold tax decision	H	M113
The Australian gold scene	N	J161
Audimco at Porphyry	IA	J181
Gababinta plant deal	IA	J185
Row River feasibility awaited	IA	J185
Sundowner tenders	IA	J185
First gold for Youmami	IA	J185
Prince of Wales nears start-up	IA	J187
More on Cadjetub	NW	J195
BHP sells Saxovale	IA	J203
Five more years for Mt. Lyell	NW	J212
Laterite gold for Paragon	IA	J217
First gold from Cracow	IA	J218
Cambrina Resources at Disbush	IA	J218
Moreton Bay sands for Denison	IA	J237
Grass roots work for Southwest	IA	J237
Golden Shamrock at Coopers Creek	IA	J237
Big Bell feasibility for Placer	IA	J237
Australian diamond exploration	P	M180
Mount Leyshon operation	H	M191
Chemical plants for WA	H	M191
Prince of Wales	H	M191
Tomera gold mine	H	M191
Nepean closure	IA	J251
Largest ever Australian coal contract	NW	J269
Youmami berra agais	NW	J270
Western Mining sells its ACM stake	NW	J289
India eyes Australian diamonds	NW	J289
Pajingo production plans	NW	J291
Noranda's Tin Dog farm-out	IA	J292
Beaconsfield float	IA	J293
Diamond prospecting for Belmont Cliff	IA	J313
Calor investigation results	IA	J313
Almoral update	IA	J314
Japan's tough line on Australian minerals	N	J320
Development of Gababinta	H	M272
Tasmanian chromite	H	M272
Cadjetub lead-zinc mine	H	M272
Giant Bay bids for bioleach business down	NW	J331
Starrs mine go-ahead	IA	J332
CAI sold owner of Yandicogina	NW	J349
Bendigo commissions second C-E-P plant in Victoria	NW	J350
Australian miners favour fibre optics	NW	J351
Drilling success for Noranda	IA	J352
BHP at London-Victoria	IA	J352
June start-up for Julia	IA	J353
Success for Samson	IA	J372
Tarcoola gold potential	IA	J372
Nepean closure imminent	IA	J374
Bell buys stake in Panfountain	NW	J385
Western Australia gold cushion	NW	J387
Dobroyde surprise for Little River	IA	J388
Molins gold expectations	IA	J388
Sheahan-Grants permission	IA	J390
First gold at Jubilee	IA	J390
Feasibility study for Darlot partners	IA	J409
PMG option for Torref	IA	J409
Aquarius' Golden Dyke find	IA	J409
Tasmanian investment	IA	J411

Mt. Lyell reprieve	H	M367
Kuswarra magnetite	H	M367
Largest coal contract	H	M367
BHP/Hancock deal on McCameys Monster	NW	J425
Soil sampling at Broad Arrow	IA	J428
M.S.W. coal closures	IA	J430
Progress at Brockman	NW	J447
Crosses drills Hanna's area	IA	J448
Nasaine reserves	IA	J448
Gababinta commissioning in sight	IA	J449
Shipling decision	IA	J449
Shipping records	IA	J449
North Kalgurlu bids for GME	NW	J465
Promise at Reeffield	IA	J468
Australian epithermal research	IA	J468
Trial mining at Kilkivan	IA	J469
First ore from Cadjetub	IA	J470
Queensland coal target	NW	J482
Clackline activity	IA	J484
Union/Kakadu venture	IA	J484
Wilgeena drilling for Emerald	IA	J484
Mt. Leyshon expansion	IA	J485
Robe River reaps reward	IA	J485
Newcastle's reward yet to come	IA	J487
Capocol plans expansion	IA	J487
Youmami gold mine	H	M453
Beaconsfield float	H	M453
Starrs gold mine	H	M453

### AUSTRIA

Oberdorf's giants	IA	J155
-------------------	----	------

### BELGIUM

Belgium coal restructuring	IA	J044
Belgian mine closures	H	M189
World's largest zinc roasting facility in Belgium	P	M362
Europe's zinc production	H	M366

IMF Aid	NW	J020
Combol accord on redundancies	NW	J069
Gold mining in Bolivia	H	M109
Bolivian tin-tungsten mine closure	H	M113
Partner sought for Bolivian sulphur	IA	J202
Metalgesellschaft's Bolivian deal	IA	J238
Bolivia's nine-month exports	IA	J238
Strike hits Bolivian tin	IA	J239
Silver leaching in Bolivia	IA	J275
Citiquiri investment for Combol	IA	J275
Pan American in Bolivia	IA	J313
Visto streamlining	IA	J333
Combol's San Vicente re-opens	IA	J355
Further Combol exploration	IA	J372
Bolivian tin industry	H	M369
Recent Combol developments	NW	J425
Bolivian lithium move	IA	J429
Sao Jose investment for Combol	IA	J485
San Vicente re-opens	H	M452

### BOTSWANA

BCL nickel	IA	J202
------------	----	------

### BRAZIL

Albras pricing talks	IA	J027
Brazilian lead operations on offer	IA	J027
CHNM project approved	IA	J059
Titanium plant for CVM	IA	J078
Iron ore exports increase	H	M015

Jacutinga manganese deposit	H	M017
Brazil invest in R&D for titanium	H	M017
Japanese withdraw from Alunorte	NW	J089
Novo Astor: Brazil's future hard rock gold mine	A	M150
Debt fears renewed	NW	J167
Finland/Brazil vanadium deal	IA	J187
Delay for Morro Agudo mine	IA	J201
Morro Velho option on Crisnas	IA	J201
Brazil in Zaire gold project	IA	J202
Delayed opening of zinc mine	H	M369
Niobium integration	H	M189
Salobo output to rise	IA	J275
Zinc plant upgrade	H	M268
Penaroya divests Brazilian lead	IA	J334
Brazilian zirconium/uranium	IA	J390
Delayed opening of zinc mine U.S.S.R. loan for Provale	IA	J431
Brazil tin output higher	S	J436
Tin dredging at Etilinas, Brazil	P	M485
Brazilian molybdenum	H	M485

### CANADA

Lacana's Canadian acquisition	NW	J004
Encouraging results at	IA	J009
Lead to yellow stake	IA	J009
Muscocho's work at Magino and at Hishibishu	IA	J009
More drilling at Snoppy Lake	IA	J009
Timmins gold tailings project	IA	J010
DUX/John Clark merger	IA	J011
Skylone looks bright in B.C.	NW	J021
Bousquet feasibility study	IA	J025
Noranda consolidated Sillidor structure	IA	J025
Red Lake development continues	IA	J025
Canada's largest gold producer	IA	J026
Quebec moves on flow-through shares	NW	J036
Fund for Citidel's Wawa claims	IA	J041
Johli interest restructured	IA	J041
Wishibishu underground work	IA	J041
Canadian JV for Minocor	IA	J041
Res Gold in CK agreement	IA	J041
Sorek in Quebec big talks	IA	J041
Dontar's salt wound	IA	J043
Lingman Lake activity	IA	J058
Res at Adams Lake	IA	J058
Spotlight on Getty Resources	IA	J058
Indians bring suit against B.C.	IA	J060
Canadian minerals valued	IA	J060
Magino reserves improved	IA	J077
Equinox/Technique in RM	IA	J077
Tailings plants for Lencourt Mines	IA	J077
Beacon plant almost ready	IA	J078
Water inflow at PCA	IA	J078
La appes Bemlo property decision	H	M017
Doynon pours millionth ounce of gold	H	M017
Nova Scotia tin mine	H	M017
Boulder Mountain's Cana	IA	J094
Berardi break	IA	J094
Anomalous gold at Little	IA	J094
Campbell's share of Detour Lake	IA	J095
Gerle Gold seeks funding	IA	J111
Little River plans	IA	J112
Tundra drill results	IA	J112
Manitowish Lake farm-in for Canadian Lencourt	IA	J112
Quintalco gold output	IA	J113
Oil sands consortium	NW	J126
Quintette coal price under pressure	NW	J145
Delaware's Snip progress	IA	J164
Seico in Kilmant	IA	J164



Keethik Lake drilling IA J154  
 Devoe opens FSW conveyor IA J156  
 Holt McDermott mine H M115  
 Producers and developers meeting, Toronto NW J173  
 Drilling on Graham Island NW J181  
 Houtas Metals secures more funds IA J181  
 Funding for Queenstake IA J181  
 New zones at Teirku/Jarvis IA J181  
 Noranda raises exploration funds IA J183  
 Total Erickson funding agreement IA J183  
 Nickel Plate ahead IA J183  
 Yellowknife tailings approved IA J185  
 Doyon award IA J187  
 Platinum at Rouyn IA J201  
 Golden Patricia expenditure IA J201  
 Ontario leads the way IA J203  
 DB gearbox to Phalen IA J203  
 High grade silver at Cobalt IA J217  
 Froepfort in Bugov venture IA J217  
 Blue Moon intersections IA J217  
 Rare metal values for Equinox IA J217  
 More high grades at Erickson IA J217  
 Canada: Timmins gold tailings project progresses NW J231  
 New plant for Noranda NW J231  
 Soques salting its prospects NW J232  
 Noranda's drill results IA J232  
 LAC to close Lake Shore IA J238  
 Potash mine to close H M188  
 Progress at Winston Lake/Ansil H M188  
 Talc deposit at Thetford IA J248  
 McFinley update IA J248  
 Funding for Neptune's Colomac claims IA J248  
 Marathon breakthrough IA J248  
 Preliminary reserves at Farley Lake IA J248  
 QIT expansion IA J250  
 Teck in Highland Valley NW J269  
 Review of exploration in British Columbia NW J270  
 Platinum search near Princeton IA J273  
 Galveston investment IA J273  
 More gold for Canamax H M273  
 Hope Brook mining IA J275  
 Flin Flin jurisdiction IA J277  
 Deke drilling promise IA J292  
 Geddes plans edit on Windy Cragsy IA J292  
 Clavon reserves increased IA J292  
 Beeline at Eastmain IA J292  
 Tundra expands Lamaque holding IA J293  
 Government assistance for Gape IA J295  
 Myra Falls increase IA J295  
 Inco's Golden Knight to proceed with new mine NW J310  
 Degussa joins International Platinum IA J313  
 Bress/Aprex results warrant drilling IA J313  
 Getty/Noranda at Tundra IA J313  
 Hishibihu pre-act advances increased potential at IA J313  
 Gwiliu Lake IA J314  
 Modular crude oil processing plant in Alberta P M264  
 Golden Pond exploration H M271  
 Encouragement at Hishibihu Lake IA J332  
 LAC farms into Perrex claims IA J332  
 Progress at Rialor Lake IA J332  
 Mikwan plans for Chesbar IA J332  
 Underground programme at Ansil IA J333  
 Joe Mann on line IA J333  
 Gold merger in Canada NW J349  
 Gunmar acquisition IA J352  
 Borealis mobilization IA J352  
 Crean Hill start-up NW J369  
 Hudson Bay in deal with Outokumpu IA J372  
 Joli property update IA J373  
 Little River drilling IA J373  
 Green light for Kremzar project IA J373  
 Silver decision at Cobalt IA J373  
 Rutan sale still in balance IA J374  
 Maple Leaf wills IA J374  
 Belmor Mines in dispute IA J374  
 Cosco's senior bid NW J387  
 Moss Township gold prospect Noranda farms out Band-Ore property IA J388  
 Lawyers gold/silver prospects IA J389  
 Positive laterriere decision IA J389  
 Ontario's mineral score IA J408  
 Frasergold venture IA J409  
 Nickel Plate gold IA J411  
 Offers for PDS potash mine? IA J411  
 Winston Lake H M368  
 St. Joe Gold to develop Golden Patricia H M368  
 Ilmenite expansion H M368  
 La Pome claims for Canastat IA J428  
 Rousing values at Hishibihu New lease for Theresa? IA J428  
 1987 expenditure for Teichgraben/Equinox IA J428  
 Abitibi venture for Orilly/Serem IA J428  
 Tundra results warrant more funds IA J428  
 Wollastonite project for Cominco IA J429

Tartan Lake joins producers IA J429  
 Highland Valley expansion IA J430  
 Matbati dispute resolved IA J430  
 Return to work at Chibougamau IA J431  
 New twist at Hemlo Battle funds for Kerr NW J445  
 Addison claims IA J448  
 Minnova interest in Adams Lake IA J448  
 Magno project firmed IA J448  
 Golden Rule's 1987 programme IA J448  
 Big Missouri/Silbak merger? IA J448  
 Brunswick investment IA J450  
 Canada launches asbestos R & D IA J450  
 Headaches galore IA J450  
 Last gasp for Gaspe Gold buoys Quebec mineral revenues NW J467  
 Silveride/SBDC Pt-Au venture IA J468  
 Fleck's Marathon hopes IA J468  
 Canadian gold investment IA J468  
 Golden Bear feasibility study IA J469  
 Government loan guarantee for JM Asbestos NW J483  
 Tulameen values for DK Platinum IA J484  
 Conshock plans Tangier second phase IA J484  
 Abernethy financing IA J484  
 Adams Lake study for Minnova IA J484  
 Mikado farms out claims IA J484  
 Settlement at Red Lake IA J487  
 Canadian gold merger H M455  
 Nickel Plate start-up H M455  
 Pine Point shutdown H M455

## CENTRAL AFRICAN REPUBLIC

C.A.R. diamond production IA J218

## CHILE

Chilean lithium review IA J027  
 Extension for Amax's brine project IA J043  
 Idle zinc mine re-opens H M015  
 Information centre for Chile IA J095  
 Codelco reconsiders IA J133  
 Chilean gold investment H M113  
 Dumping duty on nitrate U.S. seeks ban on Chilean copper IA J238  
 Chile's mineral statistics NW J280  
 Chile's copper trade with China NW J309  
 Codelco to scale down Namami's ingenuity NW J331  
 More gold in Chile NW J351  
 El Indio goes gold output IA J391  
 Chuquib's power set-up IA J428  
 San Cristobal find IA J428  
 Future uncertain for El Rusa IA J485

## CHINA

Chinese gold output H J036  
 A Chinese puzzle H J036  
 Chinese iron find IA J041  
 September start for Antaiabao coal project NW J052  
 China spends V.R. money IA J059  
 China reduces metal imports IA J134  
 BHP signs Chinese Memorandum IA J155  
 China's mining army H J155  
 PRB in China IA J156  
 Chinese gold production H M117  
 Dexing expansion IA J185  
 More iron ore to China? NW J197  
 FeMa study for BHP in China IA J201  
 China's Antaiabao coal project on-stress this year P M180  
 Sapphire deposit H M193  
 Japan aids China H M193  
 Chinese gold plant H M193  
 Chile's copper trade with China NW J309  
 Chinese copper expansion H M272  
 Sulphur for China IA J333  
 Chinese diamond venture IA J352  
 Jishi/D.S. coal project IA J352  
 China's anti-smuggling bid IA J355  
 China also assesses idle Al plants IA J355  
 Alcoa involvement in Chinese aluminium IA J411  
 China coal projections IA J431  
 Mine safety venture in China IA J449  
 One man's meat is another man's poison IA J470  
 More than a pinch of salt IA J487  
 Chinese coal project H M455  
 Diamond venture H M455

## COLOMBIA

Remote sensing fund for Colombia IA J095  
 Cerrejón North satisfactory IA J098  
 Price fall hits producers NW J214  
 Colombian coal H M189  
 Deeper work at Oro Norte IA J248  
 La Loma plans merger IA J314

## CONGO

Soviet loan to the Congo IA J010

## COSTA RICA

Rayrock joins Costa Rican project IA J112  
 Costa Rica results for Rayrock IA J292  
 Costa Rican snipnets IA J334  
 Gold in Costa Rica A M402  
 Costa Rican gold H M452

## CUBA

Cuban chrome IA J185  
 Cuban mapping IA J273  
 Cuban chrome output H M268

## CZECHOSLOVAKIA

Czech equipment in Kabul IA J155  
 Construction of Czechoslovakia's largest nuclear power plant P M263

## DENMARK

Manufacturers in the Nordic countries A M529

## DOMINICAN REPUBLIC

Liberalization of mineral exploitation H M189  
 Japanese work in Dominican Republic IA J273  
 Not such an ill wind NW J310  
 Dominican gypsum IA J314

## ECUADOR

Ecuador gold disaster IA J277  
 IFC in Ecuadorian project IA J485

## EIRE

Conroy sustains drill results IA J009  
 Toro leaders to Tara IA J060  
 Galmoy attracts more interest NW J245  
 Irish joint venture NW J370  
 Copper and silver at Galmoy IA J374  
 Aughinish resumption NW J482  
 More Conroy assays

## FINLAND

Drilling stopped at Polvijarvi IA J112  
 Finland/Brazil vanadium deal IA J187  
 Outokumpu seeks more nickel IA J217  
 Harjavalta summer closure IA J218  
 Outokumpu postpones Keretiti closure decision IA J353  
 Outokumpu's growth and investment P M445  
 Kotalahvi nickel mine H M452  
 The role of the Geological Survey of Finland A M497  
 Manufacturers in the Nordic countries A M517

## FRANCE

Co-operation in mining systems IA J027  
 French aid to Morocco IA J044  
 Pechiney's bauxite closure plans IA J076  
 French aid to Alcan? IA J096  
 French bauxite H M191  
 BSGM completes Chessy study IA J248  
 Versojou washery A M284  
 France reduces S. Africa deals IA J391  
 Chessy deposit H M366

## GABON

Gabon's rail investment IA J044  
 Assistance for Gabon H M012  
 Mineral output in Francophone Africa IA J315  
 Manganese port for Gabon IA J411

## GERMANY (EAST)

Record coal output for G.D.R. IA J043

## GERMANY (WEST)

Ruhrkohle investment IA J059  
 Demonstration coal gasification plant in FRG P M108  
 Tunnel borer success in F.R.G. NW J290  
 Bonanza in Bavaria? IA J388  
 Freusberg Mine closures IA J429

## GHANA

Delkor filters to Ashanti IA J079  
 New raise drill for Ashanti H M013

Denison in Ghana gold project IA J094  
 Ghana's diamond output IA J155  
 Ghana small mines study IA J156  
 Ghana gold search IA J217  
 Bogoso gold concession H M193  
 Ghana's Elibi project H M269  
 Ghana gold interest grows NW J330  
 IFC joins Bogoso ventures IA J373  
 Bogoso gold reserves H J468

## GREECE

Last chance for Larco NW J247  
 Greek project go-ahead NW J329  
 Larco auction mooted IA J429  
 New site for Greek alumina plant IA J469  
 Greek alumina plant H M452

## GREENLAND

Canadians seek rare earths in Greenland NW J386

## GUINEA

Aredor output up IA J096  
 Miferqui-Nimba talks IA J218  
 Gold from Aredor IA J250  
 Guinea bauxite milestone IA J250  
 Aredor boosts production H M366  
 Aredor makes the grade NW J446  
 Iron ore project H M457

## GUAYANA

Guyana's golden policy IA J096  
 Golden Star finance deal IA J201  
 Omai update P M183  
 Guyana's investment bid H M488  
 Golden Star advances Guyanese project IA J484

## HONDURAS

Metalgesellschaft NW J465

## HONG KONG

Hong Kong joins diamond federation IA J060

## HUNGARY

Gallium metal for Hungary IA J010  
 Improvement in Hungary IA J043  
 Flooding at Tatabanya IA J187  
 Iron ore to Hungary IA J239  
 New Hungarian lignite mine IA J275  
 Hungarian coal mine suspended H M271  
 Hungarian bauxite prospects IA J372  
 New Hungarian colliery H M366  
 New mine at Tatabanya IA J449

## INDIA

Hindustan buys copper smelter IA J060  
 Hatti gold mine in India H M013  
 Tisco expands steel works IA J095  
 Hindustan Zinc record IA J096  
 U.K. interest in zinc project NW J107  
 India: Balco balked on bauxite NW J144  
 Lead-zinc and copper finds in India H M117  
 India's mineral development programme A M140  
 More iron ore to China? NW J197  
 U.K. aid offer for coal project NW J197  
 India's Mines Act IA J203  
 NLC agreement IA J203  
 U.K.'s mining aid to India IA J219  
 India in Fe talks with Japan IA J239  
 Kudremukh meeting IA J239  
 Singrauli expansion IA J250  
 India eyes Australian diamonds NW J289  
 Indian mica to U.S.S.R. IA J295  
 India's search to self-sufficiency IA J315  
 Indian coal expansion H M272  
 India holds the key? L J351  
 India's diamond exports IA J374  
 Aid for India H M366  
 Gujarat lignite find IA J428  
 MVIC success IA J431  
 Rubies for Indian mines IA J449  
 Indian alumina for Poland S J458

## INDONESIA

Rationalization at Inco Indonesia IA J026  
 Indonesian open files IA J044  
 The search for gold NW J052  
 Indonesian diamond project H M015  
 Indonesia processes applications IA J111  
 Diamond hopes for Acorn NW J148  
 Dominion's Indonesian gold search IA J181  
 More Indonesian coal IA J181  
 Loan for Jason's Kanongan venture IA J237

Belgravia expands in Indonesia IA J313  
Indonesia's tin reserves IA J314  
Indonesia coal deposit H M272  
Acorn's latest bulk sampling IA J352  
Westpac loan for Kalimantan gold project MW J370  
Anahua rescue biocups IA J412  
Jason/Target examine Jambi alluvials IA J448  
Furnace breakdown in Sulawesi Sulawesi IA J449  
Indonesia up sponge iron output IA J470  
Indonesia bulk sampling H M457

**IRAN**  
Kudremah meeting IA J239  
Sar Chashmeh statistics IA J249  
Iranian copper complex H M367

**IRAQ**  
Phosphate reserves in Iraq IA J025

**JAMAICA**  
Jamaican bauxite recovers IA J470

**JAPAN**  
Gold imports for Japan IA J011  
Minor metals output IA J011  
Idemitsu's pollution control IA J078  
Japanese coal production to be cut H M015  
Japanese U308 enrichment plans IA J112  
Mitsubishi closes Akenobe IA J113  
Japanese industry crisis MW J125  
Record Japanese gold imports IA J134  
Japan's energy evolution H J141  
Japanese aid for smelters MW J144  
Japan's steel output continues to fall H M117  
Furukawa revises smelting programme H M117  
Japanese reduction process MW J213  
Titanium competition IA J237  
Cobalt crust for Japan IA J237  
Nurukawa ore for Dow Mining IA J237  
Japan-Soviet coal terms IA J238  
India in Fe talks with Japan IA J238  
Japan aids China H M193  
Japanese work in Dominican Republic IA J273  
Swazasi closes IA J295  
Japanese base metals output falls IA J295  
Japan's tough line on Australian minerals H J320  
Japan to sell surplus gold IA J374  
Drilling robots IA J411  
MITI plans for revamped coal industry IA J411  
Japan's Nurukawa mine H M368  
Iijima temporary halt Japanese metal demand expected to fall S J437  
LME warehouse for Japan? S J494  
Japanese mine closures H M455

**JORDAN**  
BAR dragline to Jordan IA J027  
Phosphates feasibility for Jordan IA J077  
Jordan potash IA J155  
Phosphate in Jordan MW J426  
Jordan fertilizer IA J485

**KENYA**  
Swazi-Kenya coal deal IA J011

**KOREA (NORTH)**  
Korean gold mine project H M015  
Uranium mine expansion IA J238

**KOREA (SOUTH)**  
Peru ships coal to R.O.K. IA J027  
Olympian strikes for R.O.K. H J089  
New R.O.K. steel plant IA J390  
Coal import controls for R.O.K. IA J391  
More steel from South Korea MW J406  
Iron and talc in R.O.K. IA J484  
Korean zinc H M455

**LIBERIA**  
Belgravia in Liberia IA J313  
West African iron producers struggle MW J350  
Iron ore project H M457

**MADAGASCAR**  
Platinum in Madagascar? IA J154  
Beach sands business in Madagascar MW J309  
Funding talks for Malagasy iron study IA J412

**MALAYSIA**  
Manut's financial restructuring IA J202  
Malaysia tin healthier but not at Sungai Lembing IA J202  
Malaysian tin H M367

**MALI**  
Gold action in Mali IA J391  
Utah in Mali agreement IA J484

**MAURITANIA**  
Akjoujt plans simmer Mauritania sells less iron ore IA J154  
West African iron producers struggle IA J295  
MW J350

**MEXICO**  
Mexico's Tapolitla operations IA J043  
Smelter emissions agreement IA J079  
Caracac mine closed A M020  
Mexican permit for Imperial Metals IA J185  
Minera Real de Angeles A M198  
Recovery problems at Rosario La Caridad A M370

**MOROCCO**  
French aid for Morocco IA J044  
Jetty for Moroccan phosphates IA J389

**NEW ZEALAND**  
UGMC acquires N.Z. claims IA J041  
Bucket wheel operation in New Zealand A M046  
BHP's New Zealand gold package IA J293  
New Zealand platinum IA J332  
New Zealand's Waitangi prospect IA J352  
Macraes Flat project H M457

**NICARAGUA**  
Nicaragua under scrutiny IA J043

**NIGERIA**  
Nigerian gold IA J154  
Nigerium-Nimba talks IA J218  
Iron ore project H M457

**NORWAY**  
Scandium in Norway MW J311  
Europe's zinc production H M366  
Spitsbergen - mining coal within the Arctic Circle A M479  
Norwegian smelters A M489  
Manufacturers in the Nordic countries A M529

**PACIFIC ISLANDS**  
Laloki tonnage increased IA J009  
Arimco funding for Gold Ridge IA J010  
A golden future for P.N.G. H J041  
Porgers - a daunting proposition MW J105  
Increased capacity at Laloki? H M113  
PNG to consolidate mineral interests MW J195  
Placer sands Misim approval IA J201  
Microsisa beckons MW J214  
End of an era in the Pacific Less nickel from New Caledonia IA J238  
Muswellbrook moves offshore IA J273  
Bougainville screening plant H M272  
Libri Island H M272  
Hidden Valley for CRA IA J332  
Bougainville results IA J334  
Spectacular gold values at Libri MW J349  
Problems for Renison in P.N.G.? MW J369  
Regent/Dominion in the Solomons IA J372  
Placer Pacific developments H M367  
RGC farms out Bulolo claims IA J428  
Fijian sampling IA J468

**PAKISTAN**  
New proposal for Saindak Further moves on Saindak project, Pakistan MW J073  
Iron ore deposits in Pakistan H M272

**PANAMA**  
Mining grant for Panama IA J388  
Mining in Panama P M361

**PERU**  
Peru ships coal to R.O.K. IA J027  
Peruvian phosphate project IA J078  
Miguelo force majeure IA J113  
Peruvian anthracite for South Korea H M113  
Peruvian lead smelter target IA J238  
RTZ to smelt Peruvian tin IA J238  
Pasto Bueno stays closed IA J250  
Silver soars on Peru move MW J329  
General strike in Peru IA J391  
Major potential of Peruvian gold H M369  
Mispoco monopoly reinstated IA J470  
Mispoco lifts force majeure IA J485

**PHILIPPINES**  
Benguet mill on-stream IA J043  
Green light for Benguet's Paracale project IA J078  
Geological help for Philippines IA J154  
Soviet interest in Monoco? MW J232  
Less Philippine copper IA J238  
Bond Corp./Atlas talks IA J295  
Philippines Treasury for GRAL IA J313  
Gold rises in Philippines IA J411  
Pass to import concentrates MW J445

**POLAND**  
Decline in Polish coal exports H M117  
Polish mineral industry trends 1986 IA J295  
Polish coal costs IA J314

**PORTUGAL**  
Naves Corvo smelter? IA J133  
Naves Corvo filters IA J187  
Sominor seeking funds IA J237

**ROMANIA**  
Further moves on Saindak project, Pakistan P M181

**SAUDI ARABIA**  
Saudi Arabian gold H M015  
Petromina's gold plans IA J094  
History revisited in Saudi IA J409

**SIERRA LEONE**  
Increased rutile production H M269  
Sierra Leone alluvials for Oliver IA J332

**SOUTH AFRICA**  
Westplat's refinery opened IA J010  
Joel shut grades IA J028  
Kloof fire recovery IA J028  
Sanctions affect R.S.A. coal IA J027  
Tin output falls IA J027  
R.S.A. modifies ban IA J060  
Waddell resigns from JCI MW J061  
Anglo's water request IA J077  
Filter for Free State Geduld IA J079  
Leeduoors main shaft H M012  
R.S.A.'s 1986 gold output IA J096  
R.S.A. deregulates gold price IA J113  
Rand Lesaas' first pour IA J113  
NUM plans peace-maker Anglo colliery officially opened H M117  
Water jet technology in gold mine H M117  
Finch mine A M120  
NUM tables its demands MW J167  
Drilling the Bothaville Gap IA J201  
More S.A. platinum IA J202  
U.S./R.S.A. uranium facts IA J203  
First blast at Fredries No.1 IA J218  
Kinross fire charges IA J219  
Rome strikes IA J219  
Sacom seeks ash buyer IA J219  
Strikers return in S. Africa IA J239  
Utilization of low quality coal extends South Africa's reserves P M181  
Fall in South African gold production H M191  
Fifty years for Amgold MW J246  
Meaningless sanctions H J257  
Free State disruption IA J277  
Ermeio explosion kills 34 MW J290  
Self-preservation H J385  
Northern Platinum mine H M268  
Diamond expansion H M269  
New Denmark - the colliery of the eighties A M276  
Arrie's last stand? MW J329  
More South African gold IA J374  
Finch unrest H J385  
Rhombus in Free State search IA J388  
Drilling to "Potch Gap" IA J388

France reduces S. Africa deals IA J391  
R.S.A. dispute all round IA J391  
Keresteling work for Sovmin IA J409  
Coal washing investment for Inco? IA J411  
Rockburst at Buffelsfontein IA J411  
Golden keys E M359  
Another South African platinum mine P M362  
New slimes dams gold recovery plant H M368  
Lining progress IA J449  
S.A. wage deal IA J450  
Platinum study on Kennedy's Vale IA J468  
GPSA introduces self-insurance IA J470  
Rustenburg refinery discord IA J487  
Small mines boom in South Africa N J490  
Unscheduled developments N J481  
Coal plant extension H M457  
Fredries No.1 main shaft H M457

**SPAIN**  
Spanish venture for Cluff Six-month closure for Rio Tinto copper mines MW J105  
Gold exploration in Spain H M115  
Spanish strikes spread IA J219  
Spanish tin closures IA J314  
Spain's steel plans IA J355  
Tin mines closure IA J487  
Tin mine closures H M452

**SRI LANKA**  
Sri Lanka topaz IA J201  
Sri Lanka graphite earnings rise IA J277

**SUDAN**  
Expansion of Gebelt gold mine, Sudan P M009  
Hassani gold for Sudan IA J202  
First doré in Hassani H M368

**SURINAM**  
Surinam bauxite matters IA J026  
Surinaco closure indefinite MW J126  
Surinaco returns IA J219  
Surinaco alumina drop IA J238  
Surinam redundancies sought IA J295  
Surinam's bauxite blow MW J310  
Surinam returns to production H M369

**SWAZILAND**  
Swazi-Kenya coal deal IA J011  
Booming mineral profits for Swaziland H M012

**SWEDEN**  
Boliden invests in Renstrom IA J026  
Allis-Chalmers split IA J113  
LKAB resumes gold tests IA J217  
Boliden to acquire ten Allis-Chalmers units MW J445  
Boliden considers Stenkenjokk closure IA J021  
Sweden's copper aid to Tanzania IA J412  
A Scandinavian first N J435  
WMC in Stockholm E M443  
Kinross royalty A M462  
Manufacturers in the Nordic countries A M508  
Underground mining productivity A M539  
World Mining Congress & Exhibition, Stockholm A M549

**SYRIA**  
Syrian diamonds mooted IA J095  
Syrian diamond deposit H M193

**TANZANIA**  
Tanzania rail aid IA J203  
Sweden's copper aid to Tanzania IA J412

**THAILAND**  
TTIC clears tantalum investment IA J095  
Metallgesellschaft runs Thai royalty IA J096  
Rare metals plans for Thailand IA J237  
Relocation of tantalum plant H M272  
Pha Deng expansion IA J411  
Thai tin licences H M455

**TOGO**  
Togo plans new production MW J198  
Togo phosphate plans H M366

## TUNISIA

Tunisian approval for phosphate mine  
IA J333  
Tunisian phosphate  
H M457

## TURKEY

Australian/Turkish power talks  
IA J060  
Turkish investment  
IA J095  
Surveying in Turkey  
IA J335

## UGANDA

Kilemba revival?  
MW J020  
Uganda revives mining industry  
H M117  
Reopening of Kilemba mine, Uganda, a possibility?  
P M365

## U.A.E.

Mineral survey of UAE  
P M112

## U.K.

Productivity boost at British Coal puts more  
MW J005  
Wheal Concord to flood  
IA J011  
Fire threatens future of Scottish pit  
MW J019  
Cost cutting at Cornish tin mines  
MW J037  
BC reviews Marmag project  
IA J043  
Serf's fire at Seaford  
IA J043  
Union presses for trebled coal output  
MW J053  
Cementation mining success  
IA J060  
Griffith changes hands  
IA J060  
Camborne pursues geothermal  
IA J077  
Ffos Las opencast coal mine, South Wales  
P M008  
Lignite deposit in Northern Ireland  
H M013  
New coal development for British Coal  
H M013  
Butterwell mine, U.K., has much to celebrate  
A M028  
Andaman's progress  
IA J112  
Go-ahead for Marmag  
IA J112  
New coal-fired power stations  
MW J126  
Coal enterprise for BLB  
IA J133  
British Coal reclamation project  
IA J156  
British Coal continues closures  
H M115  
Continued production records in British Coal  
N J193  
U.K.'s Britannia coins  
IA J203  
U.K.'s mining aid to India  
IA J219  
Keele awarded to Kier  
IA J239  
Welsh coal proposal  
H M191  
Power plant boost for British Coal  
MW J246  
Marmag approval  
IA J249  
Ruhkoble at Point of Ayr  
IA J249  
Big Bang postscript  
N J281  
New Irish find for Enxex  
IA J282  
British Coal's Southside Preparation plant  
P M261  
Epithermal gold in Ireland  
H M271  
Control and automation of large scale coal preparation plants  
A M203  
Minprep 87, Doncaster, U.K.  
IA M321  
Crumlin costs  
IA J353  
U.K. acts to ease power station pollution  
MW J371  
British Coal makes progress  
MW J405  
Enxex's vein swarm  
IA J409  
Perlite evaluation in Northern Ireland  
P M363  
Coal liquefaction project  
H M366  
A challenge for Enxex  
MW J426  
Coal imports for CIGB  
MW J481  
Encouraging results in the development of Shetland talc, U.S.  
P M449  
New Irish gold find  
H M452

## U.S.A.

United States: joint ownership works at White Pine  
MW J004  
Good progress for Canyon Resources  
MW J005  
Crone Hill potential increased  
IA J009  
First gold from Carson Hill  
IA J010  
Kennecott re-opens Bingham concentrators  
IA J011  
Coal bunker for Bethlehem  
IA J011  
U.S. consumption increases  
MW J021  
Dean mine for St. George  
IA J025  
Camp Bird revival  
IA J026  
Blackwood Ridge in U.S. takeover  
IA J027  
Uncertain steel market  
MW J037  
London venture for Cobb/Chrome  
IA J043  
Doe Run flexibility  
IA J043  
Goldendale closes  
IA J043  
Timken divests bits  
IA J044  
Women still active workforce in the mining industry  
MW J053  
Two mines on face claims?  
IA J058  
Spotted Horse mill on schedule  
IA J059  
Northwest re-organizes Terex  
IA J060  
Schell Ranch results promising  
IA J077  
Sleeper's first year  
IA J078  
Placer runs big price  
IA J078  
EPA standards review  
IA J079  
U.S. mining budget  
IA J079  
Ore pretreatment at McLaughlin mine  
P M007  
Developments at Magma Copper  
P M008  
Arizona  
H M017  
Chimney Creek project  
H M017  
Alaskan mine development  
H M017  
Molybdenum production cut  
H M017  
A novel process to treat arsenic wastes and recover metals  
MW J087  
Montana Tunnels nearing completion  
IA J095  
Goldendale future uncertain  
IA J096  
Vanadium work for Arizona Star  
IA J111  
Progress at Bingham  
IA J112  
New zone for Geodome  
IA J131  
Magnetite reserves for Cortez  
IA J133  
Granges assigns Lewis Mine  
IA J133  
Closer to Hycroft  
IA J133  
Problems at Apex  
IA J134  
Nevada gold fee opposed  
IA J134  
Royal Gold sells Colosseum  
IA J134  
Ahlstrom boiler success  
IA J134  
USBN cost data study  
IA J134  
Anti-Glamis deal  
IA J154  
Queenstake's hopes for Argus  
IA J154  
U.S. tin disposal steady  
IA J155  
Cayron's acquisition moves  
IA J156  
Elliot's acquires Mud Cat  
IA J156  
Dorr-Oliver success  
IA J156  
Goldendale disposal  
IA J156  
U.S. report foresees increased interest in sea-floor minerals  
P M111  
US Pacific resources  
H M115  
Alaskan gold  
H M115  
Pine Tree gold  
IA J181  
Glamis examines Sullivan  
IA J181  
Jens up Sleeper reserves  
IA J183  
Beryllium agreement  
IA J183  
Big Springs go-ahead  
IA J183  
Peabody acquisitions  
IA J187  
Alaskan coal search  
IA J201  
Stillwater produces  
IA J202  
U.S./R.S.A. uranium facts  
IA J203  
U.S. to import R.S.A. uranium?  
IA J203  
U.S. seeks more  
MW J212  
Ridgeway feasibility  
IA J217  
Asarco Hayden closure  
IA J218  
Nevada's Kingston success  
IA J218  
Sunbeam project firmed  
IA J237  
Finance for Pioneer's Puffy Lake  
IA J237  
Hecla buys into Greens Creek  
IA J238  
Jamestown's assets solidify  
IA J238  
Kentucky smelter rate relief  
IA J238

Zortman/Landusky resumption  
IA J238  
U.S. seeks ban on Chilean copper  
IA J238  
More U.S. gold  
IA J238  
More U.S. copper  
IA J239  
Kennecott reopens concentrator  
H M188  
Summitville's seasonal mining  
H M188  
Spotted Horse gold  
H M188  
Mercury mine closure  
H M188  
Montana Tunnel start-up  
H M189  
Expansion at Round Mountain  
MW J245  
Montana Tunnels start-up  
MW J247  
Feldspar for Steelhead  
IA J249  
Hughes Creek coal for Algoma  
IA J249  
Confirmation of U.S. mineral import dependence  
N J256  
U.S. Supreme Court rules on mining regulations  
MW J271  
Mountain States expands rare metals exposure  
IA J273  
Cyprus to drill Sierra  
IA J273  
Blanca prospect  
IA J275  
Further work at Hilltop  
IA J275  
Aluminum reopening  
IA J275  
Bentley expands Bagdad holdings  
IA J292  
Leaching soon at Cargo  
IA J293  
Wuchacho  
IA J293  
Pentagon to manage U.S. stockpile  
S J303  
Concentrator modules for Red Dog  
IA J314  
U.S. stockpile sale plans  
S J323  
AIME's 116th annual meeting, Denver, Colorado  
P M263  
Go-ahead for Red Dog Zn-Pb concentrator, Alaska  
P M264  
Gold bearing oil shales  
H M269  
Molybdenum output cut  
H M271  
Borns of Plenty at Ivanhoe  
IA J332  
Canon mine reserves expanded  
IA J335  
Drilling planned on Crone Hill/Quartz Butte  
IA J372  
La Teko heap leaching  
IA J373  
Green Mountain expenditure  
IA J374  
Copper King activity  
IA J388  
Alaska Apollo programme  
IA J388  
Test production at Buffalo Gulch  
IA J389  
Cliff Resources' progress  
IA J409  
China's smelter overhaul  
IA J411  
Round Mountain expansion  
H M368  
Lucky Friday re-opens  
MW J427  
Another U.S. bullion coin  
MW J446  
Queenstake locates ore grade at Dos Cabezas  
IA J448  
U.S. tugsten?  
IA J448  
EPA's PM10 standard  
IA J450  
U.S. energy security  
N J456  
Staggars act shortcomings  
N J457  
Horanda joins Hilltop partners  
IA J468  
Go-ahead for Burro Creek  
IA J469  
Metals recovery from Anaconda flue dust  
IA J469  
Cyprus in Lakeshore purchase  
IA J470  
Expansion at Morning Star  
IA J470  
Doe Run settlement  
IA J470  
Green light for Green's Creek  
MW J481  
Green light for Ridgeway  
MW J481  
Prisco project speeded up  
IA J485  
Gold reserves at Bagdad  
IA J485  
Improvements at San Manuel, Arizona  
P M446  
Underground uranium mine in Wyoming  
P M447  
Ryan Lode heap leaching  
H M455  
Bioleaching interest  
H M455  
Underground mining productivity  
A M539

## U.S.S.R.

Soviet loan to the Congo  
IA J010  
Boliden in Kola  
IA J011  
Deep mining in USSR  
H M013  
Soviet funding in India  
H M013  
Soviet manganese  
IA J187  
Soviet interest in Noroc?  
MW J232  
Soviet-Soviet coal terms  
IA J238  
Bugs new Soviet colliery  
IA J250  
Japan coal slurry project  
IA J275

New projects in U.S.S.R.  
H M271  
Estonia rethinks phosphorite mining  
IA J333  
More coal in Kazakhstan  
IA J389  
U.S.S.R. radio technology  
IA J430  
U.S.S.R. loan for Provale  
IA J431  
Rubles for Indian mines  
IA J449

## VENEZUELA

French aid to Alcaza?  
IA J096  
Greenshield seeks gold in Venezuela  
H M113  
Caribbean selects partners  
IA J249  
Venezuelan investments  
IA J275  
Arco and Agip in Venezuela coal venture  
MW J289  
Major coal developments  
H M452

## YUGOSLAVIA

Bor achieves target  
IA J026  
Coal miscellany  
IA J059  
Tamarock jumps to Yugoslavia  
IA J187  
Yugoslav steel expansion  
IA J239  
Mineral finds in Yugoslavia  
H M191  
Yugoslavian coal strike ends  
IA J374  
BNE system at Osmanka-Jezero A  
M387

## ZAIRE

ZES/Gecamines co-operation  
IA J096  
Brazil in Zaire gold project  
IA J202  
Brazil in Zaire gold project  
IA J251  
Rolling stock for Zaire  
IA J335

## ZAMBIA

Zambia refinery/smelter closures  
IA J011  
Zambia's Forest dilemma  
H J121  
Zambia's invisible exports  
MW J146  
Zambia's emerald plans  
IA J283  
Zambia gas deal  
H M193  
Zambia's emerald warning  
IA J275  
Zambia opts out  
H M361  
Zambia halts gemstone permits  
IA J391  
Chambishi closure  
IA J470  
No let up for ZCCM  
MW J482

## ZIMBABWE

Constitutional considerations in Zimbabwe  
H J338  
Cliff's Zimbabwe plans  
IA J353  
SoG in Zimbabwe  
IA J372  
Shange power station opened  
IA J449  
Power project gives Zimbabwe confidence  
MW J468

## Methods and Machines

### ALLUVIAL MINING

New placer gold recovery unit from U.S.A.  
M J216

### ANALYSIS

On-line diffraction analyser for minerals  
M J076  
Coal ash analyser  
M M166

Rotary sample divider  
M J296  
On-line diffraction analyser  
M M423  
Coal ash analyser  
M M425  
Laboratory mineral sampling device  
M M571

### BLASTING & EXPLOSIVES

New packaged emulsion explosives  
M M091

Research programme on electronic delay detonation  
M J253  
Research on electronic delay detonation  
M M570

### COAL TECHNOLOGY

Coal winning machines for U.K.  
M J023

New turbo-blower from Czechoslovakia  
M J023  
Dewatering aid for coal separation  
M M087  
Portable, skid-mounted coal prep. plants  
M J200  
New shearer completes successful trials in U.K.  
M J216  
Polyurethane tool holder for shearers/roadheaders  
M J317

New Denmark - the colliery of the eighties	A	M276
Vernejoil washery	A	M284
Control and automation of large scale coal preparation plants	A	M293
Turnkey coal preparation plant manufacturers	A	M300
Cyclone installations in U.S. coal prep plants	M	M344
Extending life of bauxite boxes in coal prep	M	M489
Spitsbergen - mining coal within the Arctic Circle	A	M479

## COMMUNITION & SCREENING

Rockbreaker boom systems from Finland	M	M023
Semi-mobile crushers for Canadian copper mine	M	M056
Transportable screening and stockpiling	M	M093
Materials for comminution energy saving screens for Finland	M	M166
Crushing coking coal with impactors	M	M242
Rockbreakers for Chinese coal mine	M	M245
Range of crushers from Czechoslovakia	M	M336
Mineral sizer improves at Hope Quarry, U.K.	M	M415
Semi-mobile crushers for Canadian mine	M	M424
Hydraulic rig-mounted breakers	M	M432
Vibrating screens for power plant coal	M	M471

## COMPUTERS & INSTRUMENTATION

Coal ash analyser	M	M040
Digital elevation model for mining	M	M089
Radar sensor measures true speed of off-highway vehicles	M	M235
Technological updating	M	M179
Microcomputer software for mining and exploration	A	M222
3D computer modelling of geology and mine geometry	A	M226
Computer file	A	M233
Automatic control in mineral processing	A	M316
Vehicle monitoring system uses radar	M	M452
New backhoe positioning system	M	M471
Computer file	A	M553
Computerized development	A	M555
Total mine control	A	M555
Geostatistical toolkit	A	M557
Tyre cost control	A	M557
Bearing analyzer	A	M557
CAME computer analysis of rock excavation	A	M559

## DREDGING

BRGM develops lightweight gold dredging unit	M	M128
Lightweight gold dredge from France	M	M345

## DRILLING

Drillrod test results	M	M056
'Knock-Out' device for stuck drill steels	M	M109
Additions to rock drill ranges	M	M110
New mineral exploration rig	M	M150
New portable hydraulic rockdrill	M	M160
New single pass blasthole drill	M	M165
New lightweight drill	M	M178
Drilling and coring unconsolidated formations	M	M179
Recording geotechnical information during drilling work	M	M179
New armoured wireline cable	M	M179
Downhole hammer drills to 782m in U.K. geothermal energy search	M	M200
New hydraulic mini jumbo	M	M236
All-hydraulic diamond core drill	M	M241
New hand-held drill	M	M244
HRC-50 blast-hole drill	M	M317
Drilling robots	IA	M411
New, lightweight exploration drill	M	M426
Knock-out device for stuck drill steels	M	M427
Rock auger to reduce costs	M	M432
New valveless hammer	M	M471
Recording drilling data	M	M569

## EDUCATION & TRAINING

Remote sensing fund for Colombia	IA	J095
Short courses at Leeds	IA	J203
Technological updating	E	M179
Winston Churchill Awards	IA	J315

## ELECTRICAL EQUIPMENT

Intrinsically safe TV for mines	M	M090
Flameproof, waterproof plugs and sockets	M	M452

## ENERGY & POWER

Carbore purues geothermal project	IA	J077
Improved diesel engines	M	M088
Flameproof diesel power pack	M	M090
New coal-fired power stations	M	M126
Japan's energy evolution	M	M141
Construction of Czechoslovakia's largest nuclear power plant	P	M263
Hydraulic starters for underground diesels	M	M375
More nuclear power	M	M386
New portable hydraulic powerpack	M	M392
Waste power station opened	IA	M449
U.S. energy security	N	M456
Power project gives Zimbabwe confidence	M	M466

## ENVIRONMENTAL CONTROL

Idemitsu's pollution control	IA	J078
Smelter emissions agreement	IA	J078
RPA standards review	IA	J079
Dust collector pre-cleaner for underground machinery	M	M092
Doyon award	IA	M187
Escom seeks ash buyer	IA	M219
Rand Mines' coal dump fire control	IA	M219
Amok reprocessing approval	IA	M219
Variable speed control for ventilation fan	M	M255
Cadmium pollution reaction	IA	M315
Air raid issues	N	M380
U.K. acts to ease power station pollution	M	M371
EPA's PM10 standard	IA	M450
U.S. energy security	N	M456

## EQUIPMENT SUPPLIERS

Haulage trucks	A	M128
Computer file	A	M233
Turkey coal preparation plant manufacturers	A	M300
Minprep 87, Doncaster, U.K.	A	M321
ICE/Tunnel Construction 87	A	M340
La Carlada	A	M370
Manufacturers in the Nordic countries	A	M508
World Mining Congress & exhibition, Stockholm	A	M549

## EXCAVATORS & LOADERS

Hydraulic excavator joint venture	M	M007
Efficient, economic front end loader	M	M040
Bucket wheel operation in New Zealand	A	M046
Northwest diversifies	IA	M096
New Japanese hydraulic mining shovel	M	M160
Electro-hydraulic excavator in France	M	M164
New heavyweight hydraulic shovel	M	M243
Hydraulic circuits for LHDs	M	M317
Automatic hydraulic excavator	M	M336
Automatic load stabilizer for wheel loaders	M	M357
BWE system at Omakha-Jezero	A	M387
Advanced electric mining shovel	M	M423
Efficient front-end loader	M	M425
Demag H485 on site	M	M433
New hydraulic circuits for LHDs	M	M567

## EXHIBITIONS & MEETINGS

Geo-platinum '87	IA	J011
Revised gold-silver	IA	J011
Coal '87	IA	J011
Applied mineralogy	IA	J060
Coal testing	IA	J079
Gold exploration in France	IA	J096
Strategic minerals	IA	J096
Geo-platinum 1987	IA	J113
Innovative mining	IA	J113
Vancouver gold	IA	M156
Rock deformation and prediction	IA	M156
PAGT 88	IA	M156
Tungsten in Vancouver	IA	M156
Prospectors and developers meeting, Toronto	M	M173

Modern mineral metal tech	IA	J203
Coal power 87 - W.S.W./F.R.G.	IA	J219
Copper 87	IA	J219
Drilltek 87	IA	J239
Pacific Rim 87	IA	J239
Twelfth uranium symposium	IA	J251
Deformation symposia	IA	J251
Corchar anniversary	IA	J251
Coal trade	IA	J277
CAME 88	IA	J295
Codeco presentation	IA	J315
U.S. coal prospects	IA	J315
AIME's 116th annual meeting, Denver, Colorado	P	M263
Minprep 87, Doncaster, U.K.	A	M321
ICE/Tunnel Construction 87	M	M340
Tungsten symposium	IA	M335
Mine Safety congress	IA	M335
Ground control	IA	M335
Leoben 1987	IA	M355
Mining communication workshop	IA	M355
FT Gold	IA	M391
Column flotation/AIME	IA	M391
So. Ind. Las	IA	M391
Geotech 87	IA	M412
Coal liquid mixtures	IA	M412
Tin 1987	IA	M412
China's geology 88	IA	M412
INWE 88	IA	M412
Energy sources	IA	M431
Cost analysis	IA	M431
A Scandinavian first	N	M435
Minerals in Botswana	IA	M451
U.S. Competitiveness	IA	M451
WMC in Stockholm	E	M443
World Mining Congress & exhibition, Stockholm	A	M549

## EXPLORATION

Mining activity in the western world	A	M051
A golden future for P.R.G.	N	J101
Indonesia processes applications	IA	J111
Prospectors and developers meeting, Toronto	M	M173
Resonance analysis system (RAS-1)	M	M178
Mineral development in the LDCs	N	M229
Microcomputer software for mining and exploration	A	M222
Review of exploration in British Columbia	M	M270
Pocket 'slide rule' gives exploration drill data	M	M358
Funding exploration through debt-equity swaps	N	M418
Mining in Panama	P	M361
Gold in Costa Rica	A	M402

## FILTRATION

Czech filter press for kaolin and ceramic dewatering duties	M	M110
Filter cartridge for mining and quarrying	M	M279
Vacuum belt filters for mineral dewatering	M	M357
Czech filter press for kaolin, ceramics	M	M427

## GEOLOGY & ORE RESERVES

Information centre for Chile	IA	J095
3D computer modelling of geology and mine geometry	A	M226
Cuban mapping	IA	J273

## HYDRAULICS

New filter package	M	M008
--------------------	---	------

## LABOUR

Combil miners' hunger strike	IA	J011
WMC lifts charges	IA	J027
Women workers resign	IA	J044
Miners still active workforce in the mining industry	M	M055
R.S.A. modifies ban	IA	M060
Rose River strike ends	IA	M079
Agitation forces majeure	IA	M113
Anarcho wage deal	IA	M113
NUM plays peacekeeper	IA	M113
Broken Hill changes urged	IA	M113
Broken Hill agreement	IA	M134
Horne dispute settled	IA	M156
Pact smooths way for La Mine	IA	M156
Miners	E	M106
Mobility	E	M106
NUM blames its demands	M	M119
Spanish strikes spread	IA	J219
More strikes	IA	J219
Suralco returns	IA	J219
Cominco in contract talks	IA	J239
Strikers return to S. Africa	IA	J239
Strike hits Bolivian tin	IA	J239
PCS cut backs	IA	J277
Equator gold disaster	IA	J277
Free State disruption	IA	J277
Union rejects Becla offer	IA	J285
Surian redundancies sought	IA	J285
Cominco workers to strike	IA	J355
Strike ends at Newfoundland	IA	J355
Iron ore facilities	IA	J355
Northgate strike	IA	J355

Belmont Mines in dispute	IA	J374
Tugoslavina coal strike ends	IA	J374
Pinsch unrest	M	M385
British Coal calls for more flexible working	M	M386
British Coal imposes wage rise	IA	J391
General strike in Peru	IA	J391
S.S.A. dispute all round	IA	J391
Cominco strike moves	M	M405
Mattabi dispute resolved	IA	J430
Return to work at Chibougamau	IA	J431
Cominco setback	IA	J431
S.A. wage deal	IA	J450
Headaches galore	IA	M450
Brunswick talks continue	IA	J470
Doi Run settlement	IA	J470
Brunswick solution in sight	IA	J487
Rustenburg refinery discord	IA	J487
Settlement at Red Lake	IA	J487
Underground mining productivity	A	M539

## LEACHING

Enhance heap leaching rates with air injection into the heap	A	M040
--	---	------

## MAINTENANCE & LUBRICATION

On-site portable boring machine	M	M057
Multi-purpose lubricant for off-highway vehicles	M	M109

## MATERIALS HANDLING

Freeze conditioning agents for minerals and coal	M	M007
Coal bunker for Bethlehem	IA	J011
Synthetic fibre performs well in heavy-duty conveyor belts	M	M076
Minimising conveyor downtime at Magna Copper	M	M086
Mobility for minerals	E	M107
Freeze conditioning agents for minerals	M	M163
Mobile conveyors and heap leaching	M	M166
Tube conveyor system offered world-wide	M	M253
Conveyor belting manufacture in P.R.C.	M	M488
Tube conveyor systems transport minerals	M	M567
Synthetic fibres in heavy duty belts	M	M570

## METALLURGY

Motherplate assembly for electrolytic copper refining	M	M128
---	---	------

## MINE COMMUNICATIONS

Medium frequency radio transmission systems	M	M200
New mine radio systems	M	M378

## MINE DEVELOPMENT

Transportable water treatment plant	M	M007
'Snometers' for mining	M	M040

## MINERAL PROCESSING

New laboratory/pilot scale induced magnetic separator	M	M007
Enhance heap leaching rates with air injection into the heap	A	M040
Marketing autoclave expertise	M	M092
A novel process to treat cyanide wastes and recover metals	M	M087
Production of high purity potassium dichloride and trioxide	M	M092
Largest-ever flotation	M	M109
New lab sampling device	M	M150
Linear screen available in North America	M	M151
Materials for comminution	A	M144
Cyanide concentration sensor	M	M164
Cryogenic magnets for high-gradient magnetic separation	M	M216
New, high productivity process for copper electrorefining	M	M244
Magnetic separation tests	M	M278
Solving a problem at Kalgote's Mt. smelter	M	M278
Tube press saves on drying costs	M	M286
Mercury removal from roaster gases	M	M319
Automatic control in mineral processing	A	M316
Minprep 87, Doncaster, U.K.	A	M321
Largest-ever flotation machines	M	M343



Producing high-purity antimony trichloride and trioxide M M344  
Laboratory and plant-sized hydrocyclones M J357  
Superconducting magnetic separator M J359  
Small cyclones for Senegal M J375  
Innovative portable mill system M J417  
La Caridad A M370  
Gold beneficiation A M393  
Small-scale gold processing plants M M419  
Transportable gold plant M M421  
Motherplate assembly for Cu refining M M425  
New slag processing machine recovers precious metals M J452  
Norwegian smelters A M489  
New coal/water fuel process M M573

## MINING EQUIPMENT

Haulage trucks A M128  
Minera Real de Angeles A M201  
Microcomputer software for mining and exploration A M222  
Computer file A M233  
Fastening system with mining applications M J336  
Australian miners favour fibre optics MW J351  
La Caridad A M370  
Manufacturers in the Nordic countries A M508  
World Mining Congress & exhibition, Stockholm A M549

## OFFSHORE & DEEP SEA MINING

U.S. report foresees increased interest in sea-floor minerals P M111  
Muswellbrook moves offshore IA J273  
Sea-bed mining consortium IA J355

## OPENCAST MINING

Pfos Las opencast coal mine, South Wales P M008  
Butterwell mine, U.K., has much to celebrate A M028  
Mining activity in the western world A M051  
Finch mine A M120  
System for profiling quarry faces M J235

## POLITICO-ECONOMIC

Metall prices in 1987 NW J001  
INF Aid NW J020  
A Chinese puzzle N J033  
Better year forecast for the mining industry NW J036  
Quebec moves on flow-through shares MW J036  
Nicaragua under scrutiny IA J043  
Uranium policies IA J059  
Indians bring suit against B.C. IA J060  
Olympian strides for R.O.K. U.S. mining budget IA J079  
Small mines E M005  
Mining activity in the western world A M051  
The availability of silver N J085  
A golden future for P.N.G. IA J101  
Zambia's Forex dilemma N J121  
India's mineral development programme A M140  
The Australian gold scene N J161  
Sustained bull market? MW J165  
Debt fears renewed NW J167  
PNG to consolidate mineral interests MW J195  
India's Mines Act IA J203  
Tanzania rail aid IA J203  
Three views on gold N J209  
Mineral development in the LDCs N J229  
Tungsten A M219  
Argentina seeks mining loan IA J251  
Confirmation of U.S. mineral import dependence N J256  
Meaningless sanctions N J257  
RTZ beats forecasts MW J269  
U.S. Supreme Court rules on mining regulations NW J271  
Venezuelan investments IA J275

Flin Flon jurisdiction IA J277  
Benguela railroad reopening? IA J277  
Big Bang postscript N J281  
Countertrade still growing N J300  
Benguela line to reopen? NW J309  
Japan's tough line on Australian minerals E M320  
Added value E M259  
Arris's last stand? NW J329  
Constitutional considerations in Zimbabwe N J338  
Benguela puzzle N J339  
China's anti-smuggling bid IA J353  
Sea-bed mining consortium IA J355  
Spain's steel plans IA J355  
Acid rain issues N J360  
Zambia opts out N J361  
Mercury producers reconsider pricing policies N J376  
Citicorp shakes the markets NW J386  
Zambia belts gemstone permits IA J391  
France reduces S. Africa deals IA J391  
Gold market's unusual features in 1986 N J394  
What's in a price? N J395  
Tasmanian investment IA J411  
Funding exploration through debt-equity swaps N J418  
Changes on the exchanges N J419  
Mining in Panama P M361  
An optimistic view on the future for mining N J434  
Caution on prices N J473  
Small mines boom in South Africa N J490  
Unscheduled developments N J491

## PROSPECTING

Geogas prospecting method highlighted in Stockholm M J488

## PUBLICATIONS

Chilean lithium review IA J027  
Centenary Mining Year Book IA J027  
Indonesian open files IA J044  
Bullion Johannesburg M005  
Measurement and control of mining subsidence R M005  
Greenwood & Batley Locomotives 1927-1980 R M159  
Monitoring for mine information and control R M159  
Gold 100, proceedings of the International Conference on Gold R M159  
Open files - Indonesia IA J239  
The planning and operation of open-pit and strip mines R M240  
Crushing and grinding process handbook R M240  
Iron ore databook, 1987 R M240  
Australian Mining 1987 IA J277  
Image interpretation in Geology R M338  
Mineral processing at a crossroads R M410  
Environmentally sound development in the energy and mining industries R M410  
Cone Gold: 100 years IA J451  
Australia's Mining, Minerals and Oil IA J451  
Aluminium in Latin America IA J451  
Intrinsic safety in British coal mines R M565  
Driller '87 R M565  
Environmental engineering in mines R M565

## PUMPS & PIPES

Submersible pump for abrasive slurries M M165  
Tough diaphragm pumps for Soviet Union M J255  
Vacuum speeds dewatering in Australian coal deposit N J392

## RESEARCH

New geophysical tool IA J044  
Lithochemical evaluation for gold/base metals NW J073  
Australia's liquefied coal technique IA J134

Materials for comminution A M144  
Acid rain issues N J360  
Asbestos: a flawed analysis? N J377  
Mine fire test chamber M J393  
Gold beneficiation A M393  
Research on electronic delay detonation M M570

## ROCK MECHANICS

Shaft sinking: predicting and controlling problem conditions A M209

## RUBBER & PLASTICS

Heavy duty rubber hose in mining M M161  
'Kevlar' lifting bags M J432  
Ore truck fitted with rubber dump body M M571

## SAFETY & HEALTH

Methane monitoring and control instrumentation M J023  
Alarm system indicates high or low water flow rates M J056  
Shaft drilling/winding safety monitoring system M J128  
New oxygen breathing apparatus M M161  
Kinross fire charges IA J219  
Fire protection for diesel M M243  
Ceramic exhaust filter M M244  
Wire rope fatigue-test machine M M245  
Emaco explosion kills 34 MW J280  
Portable face wash to flush out dust, grit N J297  
Self-preservation N J321  
Asbestos: a flawed analysis? N J377  
Mine fire test chamber M J393  
Rockburst at Buffelsfontein IA J411  
Ventilation safeguard for blind headings M J415  
Flameproof, waterproof plugs and sockets M J452

## STRATA CONTROL

Roofbolters from Sheffield M M087  
New design rock/ground bolt M M165  
Hand-held roof bolter M J297

## SURVEYING

Convey tunnel, U.K., seabed survey M J076  
Geological help for Philippines IA J154  
Mineral survey of UAE P M112  
Surveying in Turkey IA J335  
New high sensitivity magnetometers M J489  
The role of the Geological Survey of Finland A M497

## TRADE & STATISTICS

Metal prices in 1987 N J001  
LAE to discuss SIS regs. S J006  
Minor metals output IA J011  
Tin: a word of caution N J017  
Mine production rises again N J037  
Platinum in perspective N J049  
ILZCO figures IA J060  
Record gold coin sales IA J060  
Canadian minerals valued IA J079  
ATPC agreement E M005  
Mining activity in the western world A M051  
The availability of silver N J085  
Bleak prospects MW J087  
Seaborne trade volumes vary MW J107  
Latin American output up MW J124  
China reduces metal imports IA J134  
Rise in nickel stocks IA J134  
Tin meeting postponed IA J155  
KLTW opens up IA J155  
India's mineral development programme A M140  
The Australian gold scene N J161  
Good year for diamond NW J165  
Bourses MW J165  
Sustained bull market? MW J167  
Strong consumption growth forecast MW J167

ATPC accord on quotas NW J195  
Increased production in 1986 MW J198  
Ontario leads the way IA J203  
Three views on gold N J209  
Mineral development in the LDCs N J229  
Latin American output to soar NW J232  
Demand patterns to change NW J233  
Bolivia's nine-month exports IA J239  
Tungsten A M219  
Confirmation of U.S. mineral import dependence N J256  
U.S. gold statistics IA J277  
Fine balance for nickel N J280  
Chile's mineral statistics MW J290  
Japanese base metals output falls IA J295  
Polish mineral industry trends 1986 IA J295  
Countertrade still growing N J300  
Commodity trade - or aid? N J301  
India's march to self-sufficiency IA J315  
Mineral output in Francophone Africa IA J315  
Marketing minor metals S J362  
World Bank view on commodities MW J379  
Producer producers reconsider mining policy N J376  
Record year for platinum MW J385  
More nuclear power MW J386  
Gold market's unusual features in 1986 N J391  
What's in a price? N J395  
Ontario's mineral sector MW J406  
Graphite draws more interest MW J406  
Lead/zinc first quarter IA J431  
An optimistic view on the future for mining N J434  
Heavyweight gold contest MW J465  
A perspective on copper NW J472  
Caution on prices N J473

## TRANSPORT - GENERAL

Diesel fuel-line heater for off-highway vehicles M J008  
More remanufactured dumptrucks M J024  
Gabon's rail investment IA J044  
Truck for ore transport fitted with Skega dump body M J056  
Versatile new heavy amphibian M M086  
Improvements to mature rear dump hauler M M092  
Large-capacity bottom dump coal hauler M J092  
Seaborne trade volumes vary 200-ton-plus off-highway trucks MW J107  
Haulage trucks A M128  
Radar sensor measures true speed of off-highway vehicles M J235  
Rolling stock for Zaïre IA J335  
Range of articulated dumptrucks M M421  
Shipping records IA J449  
Vehicle monitoring system uses radar M J452  
Staggers Act shortcomings N J457  
Large dumptrucks for Australian iron ore M M569  
Ore truck fitted with rubber dump body M M571

## TRANSPORT - UNDERGROUND

Steep seam locomotives M J129  
New underground vehicles M J298

## TUNNELLING & SHAFT SINKING

Shaft sinking: predicting and controlling problem conditions A M209  
Tunnel borer success in FRG MW J290  
New roadheader from FRG M J319  
ICE/Tunnel Construction 87 N J348  
1812 overture N J393

## UNDERGROUND MINING

Charcas mine A M020  
Mining activity in the western world A M051  
Raise drills for Zambia N J128  
Finch mine A M120  
Kiruna A M462  
Underground mining productivity A M539

## Companies and Other Public Bodies

Aberfoyle MF J083  
ABM Gold Corp. MF J226  
MF J401

A. Ahlström Corp. IA J134  
Alme P M263  
Aktia Zinc IA J439  
Alcan Aluminium IA J095  
IA J185 IA J352 MF J423

Alcoa IA J428  
Alcoa of Australia MF J208  
Alkane Exploration IA J352  
Allis Chalmers A M022

IA J113 MW J245 M J279  
Alluvial Mining and Shaft Sinking M J076  
Aluminium Bahrain (Alba) MW J019  
IA J487

Aluminae MF J047  
 ANAS Mining MF J389  
 Asma MF J168  
 IA J079 MF J114  
 IA J181 MF J204  
 MF J347 MF J098  
 American Barrick MF J241 NW J311  
 Amgold MF J221  
 ME J282  
 IA J219  
 Amco Ltd. NW J481  
 Amelco Minerals IA J489  
 Asaronda IA J112  
 Ascan Resources M M087  
 Anglo Resources IA J009  
 Anglo American Coal Corp. A M278  
 MF J398 ME J400  
 Anglo American Corp. MF J031  
 IA J077 MF J081  
 ME J260 MF J439  
 Anglovaal MF J221  
 P M363  
 Antra Perlite MF J047  
 ARI Ltd. IA J094  
 Artek Recovery Systems MF J226  
 PT Asahan Aluminium MF J084  
 Asmara MF J478  
 MF J031  
 IA J113  
 IA J314  
 MF J478  
 IA J113  
 A A M469  
 IA J353  
 N M457  
 P M180  
 M J365  
 N J040  
 M J485  
 IA J133  
 N J301  
 N M427 N J432  
 A M559  
 M J278  
 N M091  
 MF J307  
 IA J373  
 Australian Mineral Industries Research Association NW J073  
 Australis Mining IA J094  
 Ayer Hitea Tin Dredging MF J226  
 Astec Exploration MF J159

## B

Base Metal Synergy MF J133  
 Associates MF J137  
 Battle Mountain MF J386  
 MF J307  
 MF J282  
 MF J283  
 N J393  
 MF J241  
 IA J313  
 N J385  
 MF J423  
 MF J066  
 MF J180  
 MF J047  
 IA J078 MF J463  
 IA J292  
 N M165  
 MF J226  
 IA J201  
 MF J401  
 NW J310  
 Biliton MF J463  
 MF J066  
 IA J027  
 MF J046  
 IA J011  
 A J058  
 IA J411  
 N J488  
 IA J295  
 IA J183  
 IA J352  
 MF J485  
 MF J158  
 IA J334  
 IA J094  
 MF J031  
 MF J028  
 MF J062  
 MF J159  
 MF J365  
 MF J005  
 P M008  
 IA J152  
 IA J156  
 NW J246 IA J249  
 NW J366 IA J391  
 British Jeffrey Diamond N J216  
 Broken Hill Associated Smelters IA J353  
 Broken Hill Proprietary MF J063  
 NW J145 IA J155  
 MF J226 MF J265  
 IA J352 MF J381  
 MF J343  
 IA J487  
 A M029  
 MF J062

Bureau de Recherches  
 Geologiques et Minieres M J128  
 IA J248 N M345  
 Butterley Engineering IA J011

## C

Cambridge School of Mines IA J077  
 Campbell Red Lake MF J044  
 Canada Development Corp. IA J094  
 Canam Resources MF J242  
 Casat Petroleum Corp. IA J428  
 Canyon Resources Corp. IA J155  
 Carbine Gold MF J207  
 Carpio Inc. M J452  
 Carr Boyd Minerals MF J014  
 MF J031 MF J159  
 MF J328  
 Carricks Holdings MF J015  
 Caterpillar IA J080  
 Cementation Mining  
 Central Electricity Generating Board M J287  
 MF J461  
 MF J346  
 N M393  
 IA J027  
 A M284  
 N J298  
 MF J346  
 MF J497  
 S J474  
 NW J386  
 MF J014  
 MF J089  
 IA J181  
 N J337  
 IA J009  
 IA J353  
 M J452  
 MF J140  
 IA J133  
 MF J495  
 MF J324  
 IA J324  
 IA J011  
 IA J334  
 NW J427  
 NW J457  
 MF J138  
 MF J346  
 MF J401  
 NW J405 IA J429  
 P J314  
 P M264  
 M J454  
 IA J374  
 MF J328  
 IA J059  
 MF J245  
 NW J482  
 MF J325  
 E M559  
 IA J451  
 MF J046  
 MF J325  
 N J216  
 MF J343  
 MF J477  
 N J253  
 N M567  
 N M393  
 MF J098  
 MF J326  
 MF J220  
 MF J159  
 MF J478  
 MF J207  
 MF J207  
 N M088  
 MF J207  
 MF J084  
 MF J273  
 IA J470

## D

Dalhousie Investments MF J287  
 David Brown Gear Industries IA J203  
 Davis Derby Ltd. N J278  
 De Beers MF J029  
 NW J106 A M120  
 MF J242 ME J344  
 Deelkraal MF J045  
 Demag Baumachinen IA J113  
 MF J401  
 MF J189  
 MF J205  
 MF J237  
 IA J131  
 N J359  
 MF J346  
 MF J266  
 MF J031  
 MF J081  
 MF J265  
 MF J328  
 MF J045  
 IA J156  
 N M573  
 IA J133  
 MF J380  
 M M163  
 MF J326  
 M J423  
 A M029  
 N J200

Drilltech M M165  
 Durban Roadport MF J046  
 DUX Machinery IA J011

## E

Eastern Gas and Fuel Associates MF J190  
 Eastern Transvaal MF J063  
 Consolidated MF J325  
 MF J081  
 MF J496  
 MF J499  
 MF J046  
 MF J190  
 MF J478  
 N J001  
 IA J079  
 MF J265  
 MF J015  
 MF J046  
 M J392  
 MF J242  
 MF J013  
 MF J206  
 IA J156  
 M J393  
 NW J331  
 MF J013  
 IA J373  
 M J286  
 IA J027  
 MF J119  
 MF J180  
 MF J463  
 MF J468  
 MF J422  
 MF J478  
 MF J263  
 MF J409  
 IA J077  
 MF J221  
 M J059  
 N J109  
 MF J463  
 IA J348  
 IA J238

## F

Fairbanks Machine & Steel N J040  
 MF J119  
 MF J261 MF J439  
 A M491  
 NW J247  
 N M468  
 N J007  
 N M087  
 IA J156  
 N M086  
 NW J425  
 MF J207  
 MF J285  
 MF J115  
 MF J325  
 MF J077  
 MF J046  
 IA J183  
 MF J481  
 MF J081  
 MF J081

## G

Galactic Resources MF J364  
 MF J424  
 N J255  
 GEC Industrial Controls MF J028  
 General Mining Union MF J062  
 Corporation MF J028  
 ME J030 IA J044  
 NW J089 MF J220  
 ME J284  
 General Services MF J067  
 Administration IA J027  
 Geological Survey of Finland A M497  
 A M557  
 IA J058  
 IA J059  
 NW J331  
 MF J381  
 MF J081  
 MF J381  
 N J150  
 N M071  
 MF J013  
 NW J036  
 MF J046  
 P M362  
 MF J441  
 MF J463  
 P M183  
 MF J045  
 IA J470  
 IA J113  
 N J279  
 MF J269  
 MF J159  
 IA J133  
 MF J386  
 IA J077  
 MF J012  
 NW J019  
 N J489  
 MF J015  
 MF J477  
 IA J080  
 MF J062  
 MF J263  
 Grupo Industrial Minera Mexico A M020

G.S.F. (Worley) Ltd. M J336  
 Gulf Oil Corp. IA J010  
 Industrial Consulting NW J213  
 M J298  
 Gullick Dobson MF J062

## H

Halifax Tool Co. N J150  
 N J471  
 N J317  
 N J393  
 N J387  
 N M166  
 N M045  
 N M243  
 MF J062  
 MF J325  
 M M242  
 IA J238  
 MF J401  
 MF J083  
 MF J346  
 MF J366  
 IA J314  
 IA J430  
 MF J014  
 MF J326  
 N M185  
 MF J081  
 N J007  
 N M160  
 MF J061  
 M J432  
 N M092  
 MF J342  
 IA J181  
 MF J029  
 IA J372  
 N M112  
 MF J461

## I

ICI Australia M J253 IA J078  
 IHC Holland N J471  
 P M445  
 MF J068  
 MF J135  
 MF J137  
 N J026  
 MF J310  
 S J436  
 N J023  
 MF J031  
 MF J013  
 MF J439  
 IA J388  
 MF J240  
 IA J079  
 IA J373  
 IA J485  
 A M553  
 IA J417  
 N J361  
 MF J387  
 N J017  
 S J235  
 S J379  
 NW J482  
 IA J355  
 MF J138

## J

Jarvis Clark A M023  
 Jackson Resources N J392  
 JCB Hydroponics MF J014  
 Kimberlana Holdings MF J015  
 Kimberlana Minerals N J057  
 JKB-Boyle N J179  
 Johannesburg Consolidated Investment MF J061  
 MF J081 ME J082 MF J306  
 John Clark Inc. IA J011  
 Johnson Matthey MF J346  
 Johnson Matthey Commodities MF J303  
 Joy Process Equipment M J255

## K

Kaiser Aluminum & Chemical MF J119  
 Kaiser Engineers IA J134  
 Kaiser Steel MF J138  
 Kennecott N J109  
 Kerr Adgold Mines IA J441  
 Kiddon Gold Mines MF J429  
 KIENA Gold Mines MF J286  
 Kier Mining IA J320  
 Klenbe Mines NW J039  
 Kinross Corp. N M166  
 Kinross MF J028  
 MF J062  
 MF J045  
 A M035  
 N J336  
 N J337  
 P M108  
 N J056  
 IA J337 A M389  
 M M424  
 P M108  
 Lacana Mining Corp. NW J004  
 MF J190







